CD RECEIVER

KDC-5050RG/RA, 4050LG/LA

SERVICE MANUAL

KENWOOD

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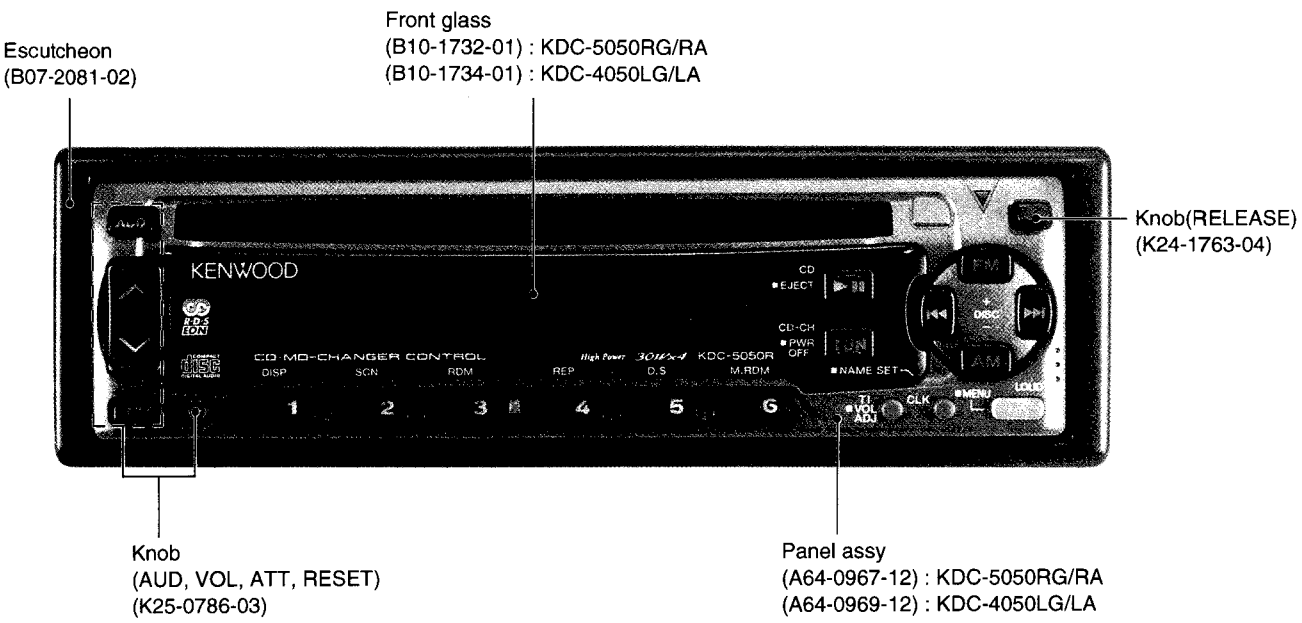
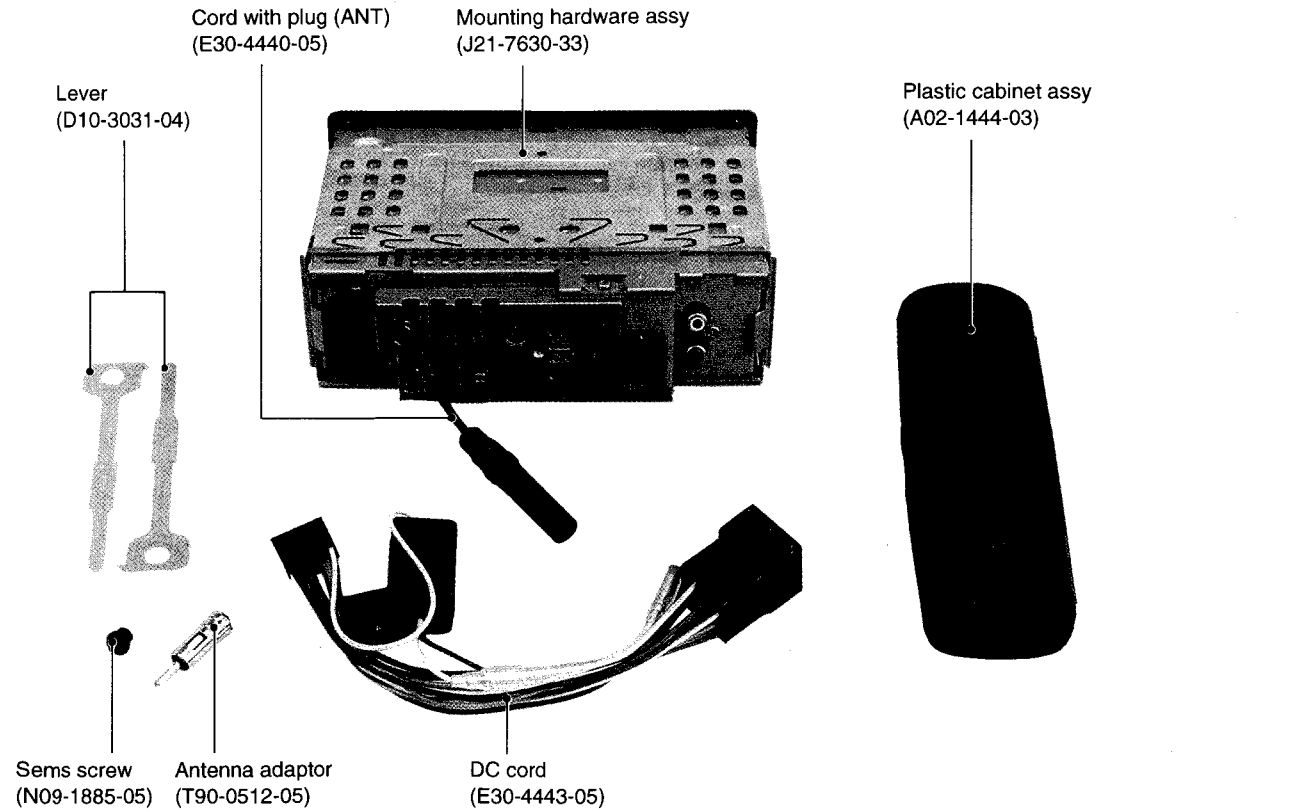
Photo is KRC-5050RG





KDC-5050RG/RA,4050LG/LA

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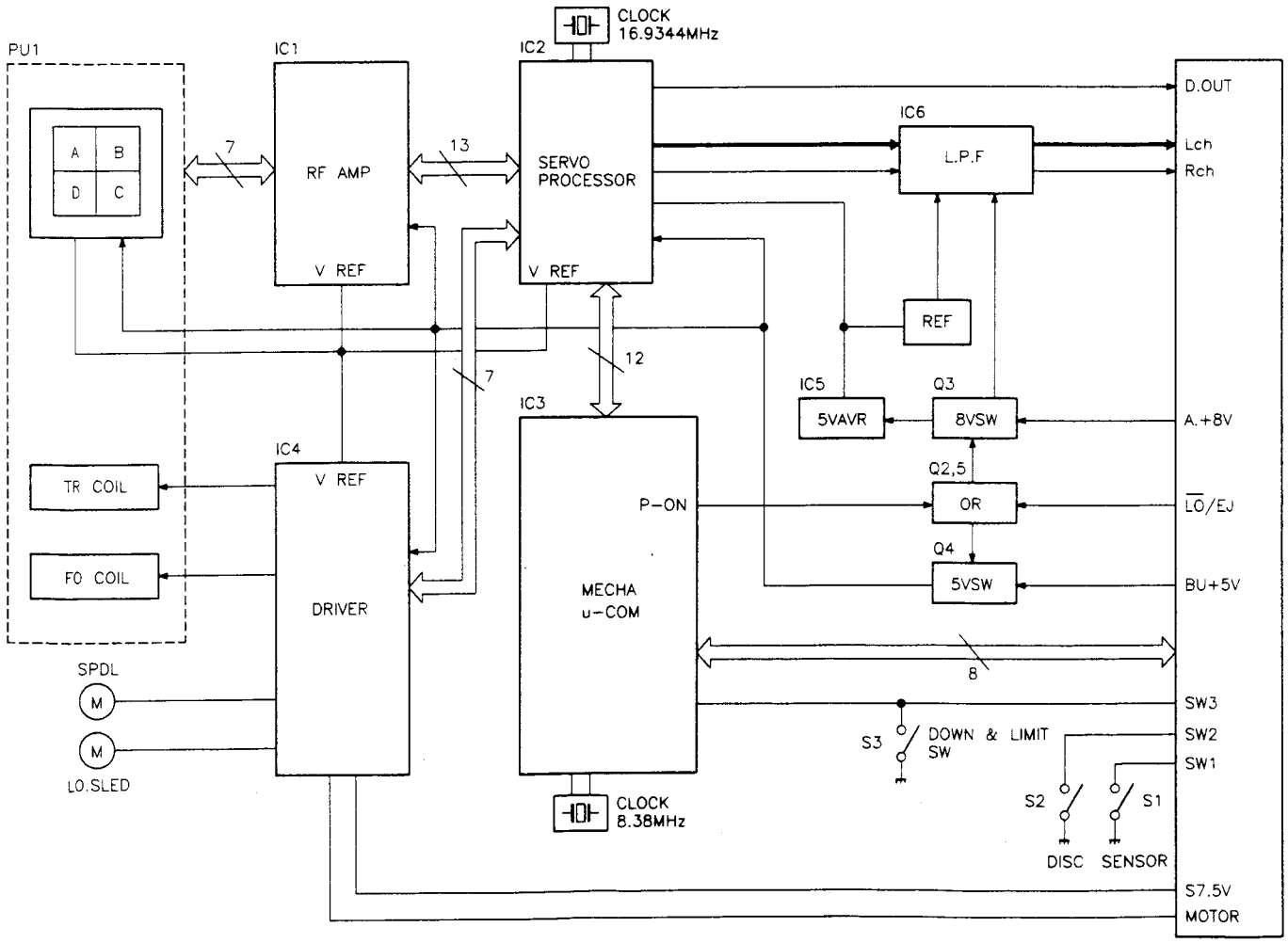
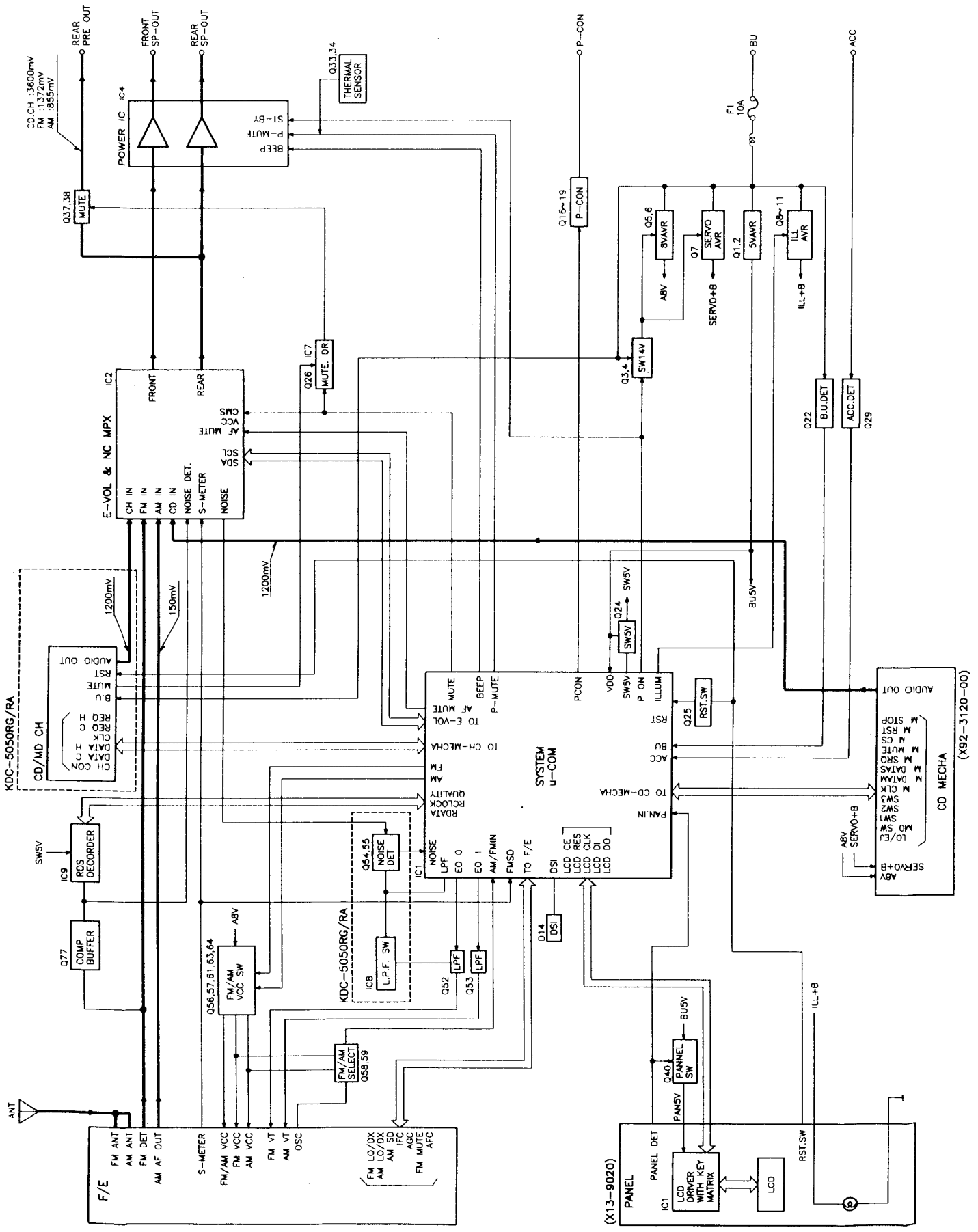
BLOCK DIAGRAM (MECHANISM)



BLOCK DIAGRAM



CIRCUIT DESCRIPTION

Description of components

ELECTRIC UNIT (X25-7782-XX)

Component	Component Name	Application / Functions	Operation/Condition/Compatibility
*1) IC1	178016BGC511 178016BGC517	System control μ-com	
IC2	TDA7420	E-vol & NC MPX	
IC4	TDA7385	Power IC	
IC7	HD74HC27FP	Mute logic	
IC8	TC4W66F	L.P.F SW	
IC9	SAA6579T	RDS decoder	
Q1 Q2	2SC2412K 2SB1565F(E,F)	B.U. 5V AVR	Darlington connected
Q3 Q4	DTC144EK DTA124EK	SW 14V	ON when the base of Q3 goes "H" while power is ON
Q5 Q6	2SC2412K 2SB1184	Audio 8V AVR	Darlington connected
Q7	2SD2396F40	Servo +B AVR	
Q8 Q9 Q10 Q11	DTC144EK DTA124EK 2SC2412K 2SB1184	Illumination AVR	ON when the base of Q8 goes "H"
Q16 Q19	DTC114YK 2SB1277(Q,R)	P-con SW	P-con is output when the base of Q21 goes "H"
Q17 Q18	DTA124EK 2SA1037K	P-con protector	Activated when P-con output voltage drops
Q22	2SC2412K	B.U. detect	Detects the back-up voltage
Q24	DTA114YK	5V SW	ON when the base goes "L" while power is ON
Q25	DTC124EK	Reset SW	Resets the μ-com according to the signal from the panel
Q26	DTA124EK	Mute driver	Muting turns ON when the base is "L"
*2) Q27	DTC144EK	AF mute	
Q28	DTC144EK	E-vol mute	Muting turns ON when the base is "H"
Q29	2SC2412K	Acc detect	Detects the AC voltage
Q30	2SC2412K	CRSC SW	MONO when the switch is turned ON by pulse signal from E-vol
*2) Q32	2SC2412K	Noise buffer	
Q33 Q34	DTC124EK DTA124EK	Temp. unprotect SW	In test mode, protection is canceled when the base of Q33 is "H"
Q37, 38	DTC143TK	Mute	Audio output is muted when the base is "H"
Q40	DTA114YK	Panel 5V SW	ON while the panel is attached
*2) Q50	DTC144EK	L.P.F SW	
*2) Q51	2SA1037K	Constant-current driver	
*2) Q52 Q53	2SK669	L.P.F SW	FET generating the Vt voltage
*2) Q54 *2) Q55	DTC114TK DTA124EK	Noise detector	

CIRCUIT DESCRIPTION

Component	Component Name	Application / Functions	Operation/Condition/Compatibility
Q56	2SB1277(Q,R)	AM power supply SW	AM+B is turned ON when the base of Q63 is "H" in AM mode
Q63	DTC124EK		
Q57	2SB1277(Q,R)	FM power supply SW	FM+B is turned ON when the base of Q64 is "H" in FM mode
Q64	DTC124EK		
Q58, 59	2SC2412K	OSC SW	Q58 goes ON in AM mode and Q59 goes ON in FM mode
Q62	DTC124EK	FM Lo/Dx SW	
*2) Q65	DTC144EK	FM band mute SW	Turns off the S meter signal during muting
*2) Q70	2SA1037K	Mute SW	
*2) Q72	DTC124EK		
*2) Q71	DTC124EK	Mute SW control	
*2) Q73 , 74	2SC2412K	Schmitt trigger	
*2) Q75	2SC2412K	FM mute SW	
*2) Q76	2SC2412K	AGC buffer	
Q77	2SC2412K	FM comp. buffer	

SWITCH UNIT (X13-9022-XX)

Component	Component Name	Application / Functions	Operation/Condition/Compatibility
IC1	LC5883E	LCD driver with key matrix	
Q1	DTA114EK	Key detect SW	Sets the key input accepting condition

*1) "178016BGC511" : KDC-5050RG/RA
"178016BGC517" : KDC-4050LG/LA

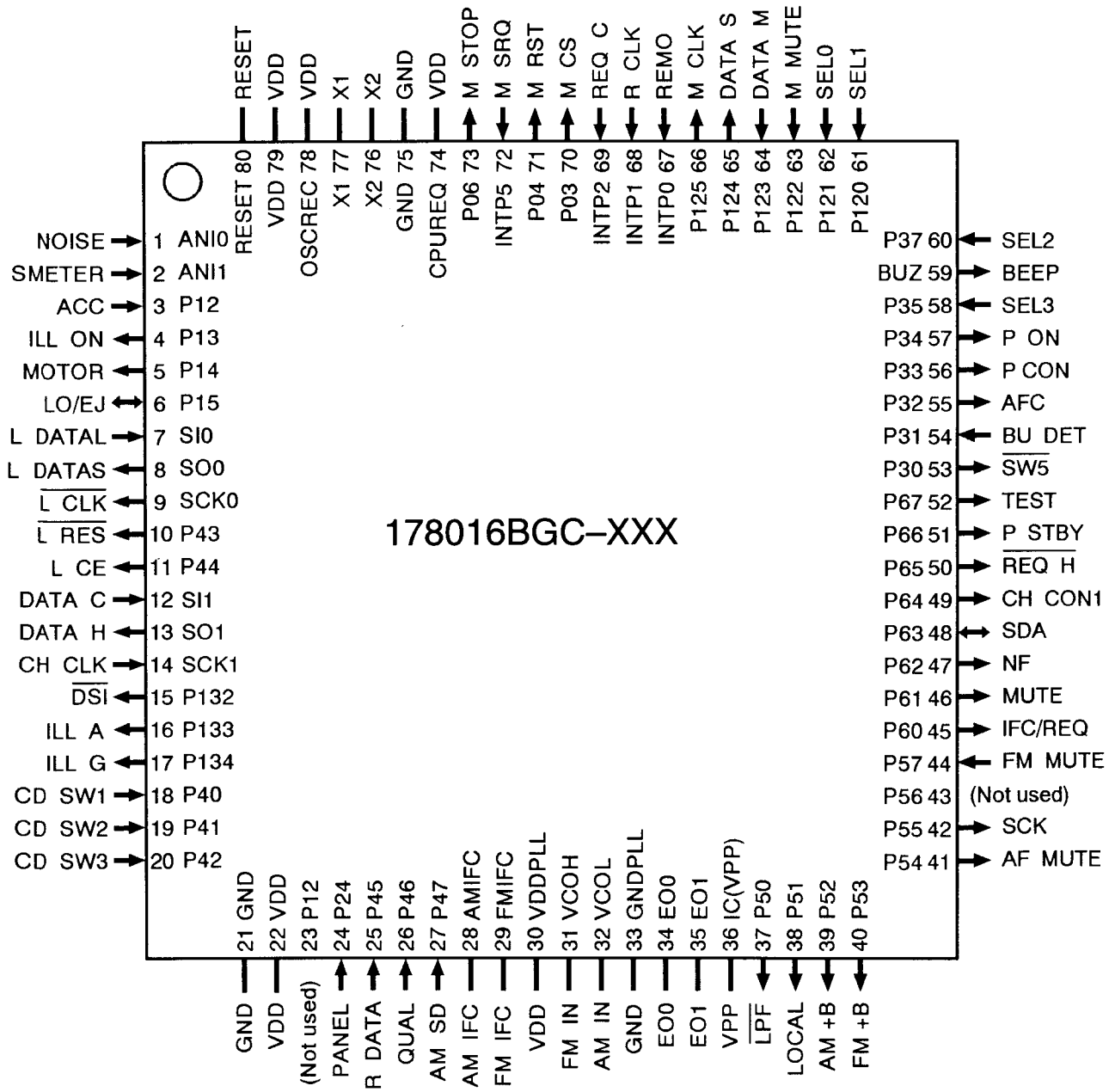
*2)

	Q27, 32, 50 - 52, 54, 55, 70 - 76	Q65
KDC-5050RG/RA	YES	NO
KDC-4050LG/LA	NO	YES

CIRCUIT DESCRIPTION

Microprocessor IC1 : 178016BGC-XXX

● **Terminal connection**



CIRCUIT DESCRIPTION

● Terminal description

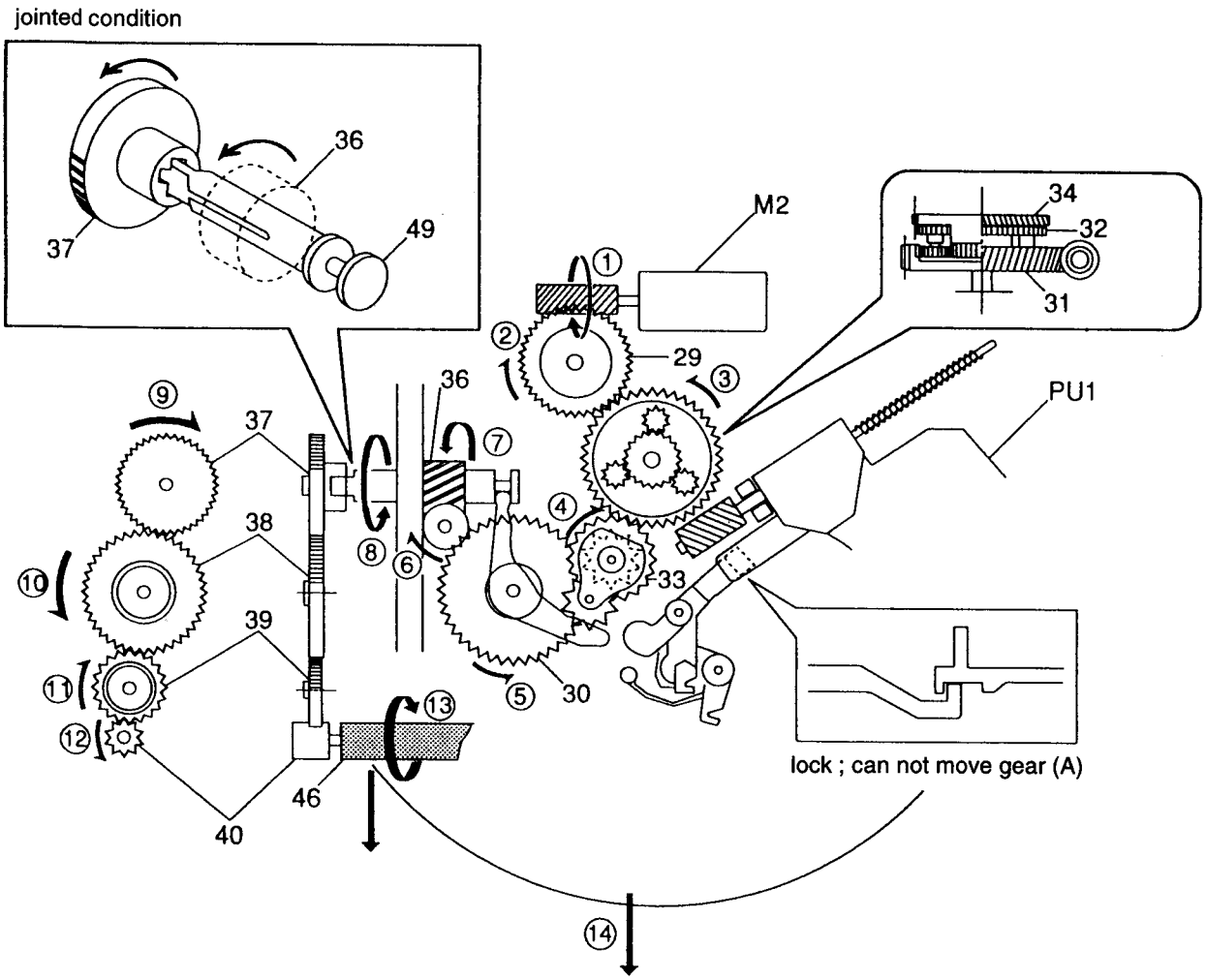
Pin.No	Pin Name	I/O	Function	Description	Active
1	ANI0	I	NOISE	Analog input for FM noise detection	
2	ANI1	I	SMETER	Analog input for FM S meter detection	
3	P12	I	ACC	Acc detection input	L:ON
4	P13	O	ILL ON	Illumination output	H:ON
5	P14	O	MOTOR	Motor control output	
6	P15	I/O	LO/EJ	Load/Eject switching output	
7	SI0	I	L DATAL	DATA input from LCD driver	
8	SO0	O	L DATAS	DATA output to LCD driver	
9	SCK0	O	L CLK	CLOCK output to LCD driver	
10	P43	O	L RES	RESET output to LCD driver	L:RESET
11	P44	O	L CE	CE output to LCD driver	
12	SI1	I	DATA C	DATA input from CH	
13	SO1	O	DATA H	DATA output to CH	
14	SCK1	I	CH CLK	CLOCK input from CH	
15	P132	O	DSI	DSI output	L:ON
16	P133	O	ILL A	Illumination (Amber) output	L:Amber
17	P134	O	ILL G	Illumination (Green) output	L:Green
18	P40	I	CD SW1	Loading detection switch	L:ON
19	P41	I	CD SW2	12cm disc detection switch	L:12cm
20	P42	I	CD SW3	Down & Limit switch	L:Chucking
21	GND	-	GND	GND	
22	VDD	-	VDD	Vdd 5V	
23	P12		(Not used)		
24	P24	I	PANEL	Panel attached/detached detection input	H:Attached
25	P45	I	R DATA	RDS data input	
26	P46	I	QUAL	RDS reception quality	
27	P47	I	AM SD	AM station detection input	H:Detected
28	AMIFC	-	AM IFC	AM IF count input	
29	FMIFC	-	FM IFC	FM IF count input	
30	VDDPLL	-	VDD	Vdd 5V	
31	VCOH	-	FM IN	FM OSC input	
32	VCOL	-	AM IN	AM OSC input	
33	GNDPLL	-	GND	GND	
34	EO0	-	EO0	PLL error output 0	
35	EO1	-	EO1	PLL error output 1	
36	IC(VPP)	-	VPP	GND	
37	P50	O	LPF	Low-pass filter switching output	L:ON
38	P51	O	LOCAL	LOCAL output	H:ON
39	P52	O	AM+B	AM power output	H:ON
40	P53	O	FM+B	FM power output	H:ON
41	P54	O	AF MUTE	AF muting output	L:ON
42	P55	O	SCK	CLOCK output to E-Vol	
43	P56		(Not used)		

CIRCUIT DESCRIPTION

Pin.No	Pin Name	I/O	Function	Description	Active
44	P57	I	FM MUTE	Band muting detection input	H:Detected
45	P60	O	$\overline{\text{IFC}}$	AM IF count control output	L:ON
46	P61	O	MUTE	Muting output	H:ON
47	P62	O	$\overline{\text{NF}}$	Non-fader output	L:ON
48	P63	I/O	SDA	DATA input-output to E-Vol	
49	P64	O	CH CON1	Changer 1 control output	H:ON
50	P65	O	$\overline{\text{REQ H}}$	Handshake request to Changer	L:Requested
51	P66	O	$\overline{\text{P STBY}}$	Power amplifier standby output	L:ON
52	P67	O	TEST	Temperature rise protection circuit operation inhibiting output	H:Test mode
53	P30	O	$\overline{\text{SW5}}$	5V power control output	L:ON
54	P31	I	BU DET	Momentary power-down detection input	H:Power down
55	P32	O	AFC	AFC output	H:ON
56	P33	O	P CON	Power control output	H:ON
57	P34	O	P ON	Microcomputer surrounding power control output	H:ON
58	P35	I	SEL3	Destination type selection 3	
59	BUZ	O	BEEP	BEEP output	
60	P37	I	SEL2	Destination type selection 2	
61	P120	I	SEL1	Destination type selection 1	
62	P121	I	SEL0	Destination type selection 0	
63	P122	I	$\overline{\text{M MUTE}}$	Muting request from CD mechanism controller	L:Requested
64	P123	I	DATA M	DATA input from CD mechanism controller	
65	P124	O	DATA S	DATA output to CD mechanism controller	
66	P125	O	M CLK	CLOCK output to CD mechanism controller	
67	INTP0	I	REMO	Remote control signal input	↴:Requested
68	INTP1	I	R CLK	RDS CLOCK input	
69	INTP2	I	$\overline{\text{REQ C}}$	Handshake request from Changer	L:Requested
70	P03	O	$\overline{\text{M CS}}$	Handshake request to CD mechanism controller	L:Requested
71	P04	O	$\overline{\text{M RST}}$	RESET output to CD mechanism controller	L:RESET
72	INTP5	I	$\overline{\text{M SRQ}}$	Handshake request from CD mechanism controller	↴:Requested
73	P06	O	$\overline{\text{M STOP}}$	STOP request to CD mechanism controller	L:Requested
74	CPUREQ	-	VDD	Vdd 5V	
75	GND	-	GND	GND	
76	X2	-	X2	X'tal connection	
77	X1	-	X1	X'tal connection	
78	OSCREC	-	VDD	Oscillator power supply	
79	VDD	-	VDD	Power voltage application terminal	
80	RESET	-	RESET	RESET input	

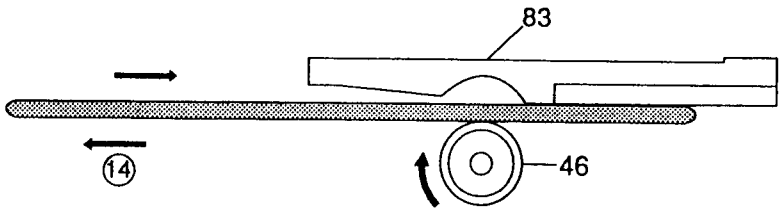
MECHANISM OPERATION DESCRIPTION

1. DISC OUT



1) The motor (M2) turn at first (①).
2) The motor will triggers the others gear (①, ②, ③ ··· ⑫) to turn at the direction indicated.
3) Finaly the roller will move the disc out (⑭).
   • The roller (46) press the disc when disc insert and take out time (⑬).

〈 BOTTOM VIEW 〉



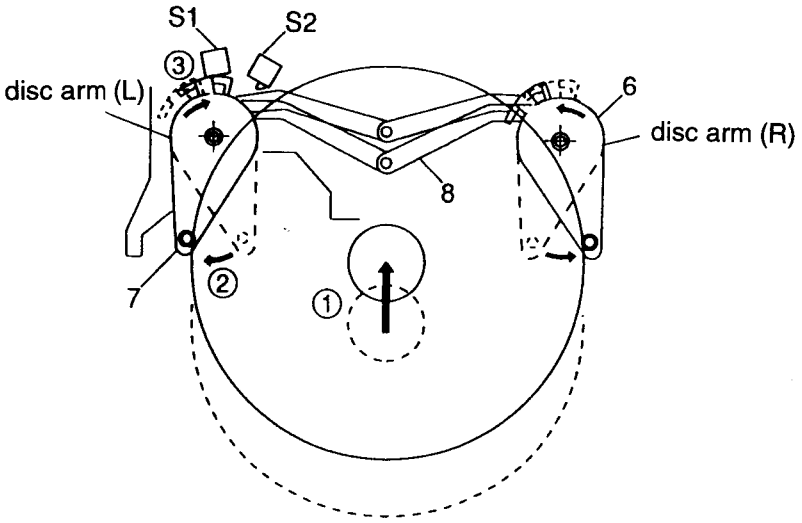
MECHANISM OPERATION DESCRIPTION

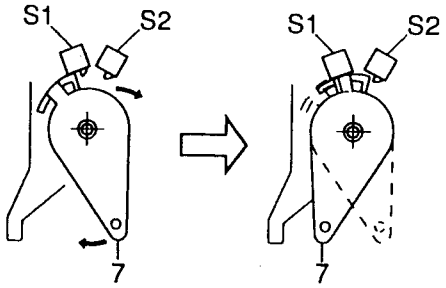
2. DISC IN

(1) ROLLER MOVEMENT (DISC DETECTION)

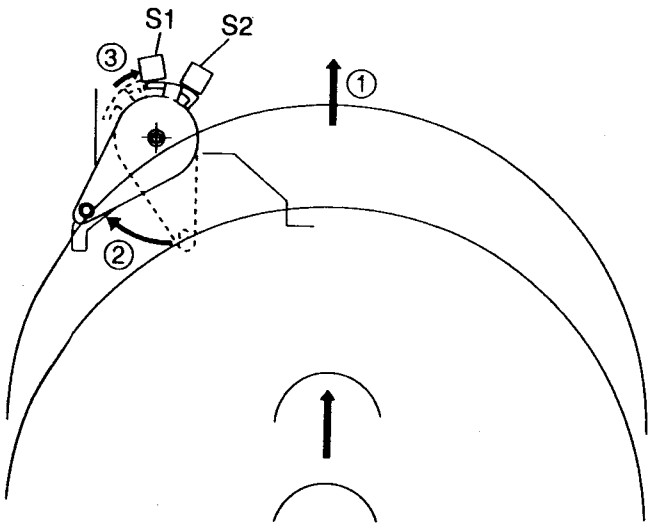
1) Insert disc (①), the disc will push the guide pin of disc arm (L) and (R) (②).
2) Disc arm (L) (7) in turn, will switch (③) on the disc detection switch (S1, S2).
3) The motor will turn when switch on, and triggered others gear to turn.
(Refer to sketch P9.)
4) Roller will turn toward "disc in" direction.
   - Insert the 8cm disc, so the disc arm (L) (7) will push the S1.
   - Insert the 12cm disc, so the disc arm (L) (7) will push the S1 and S2 together.

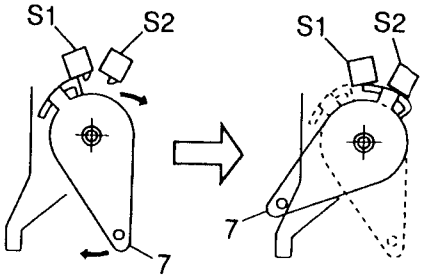
【S1 ; detection of 8cm disc.】 TOP SIDE VIEW





【S2 ; detection of 12cm disc.】

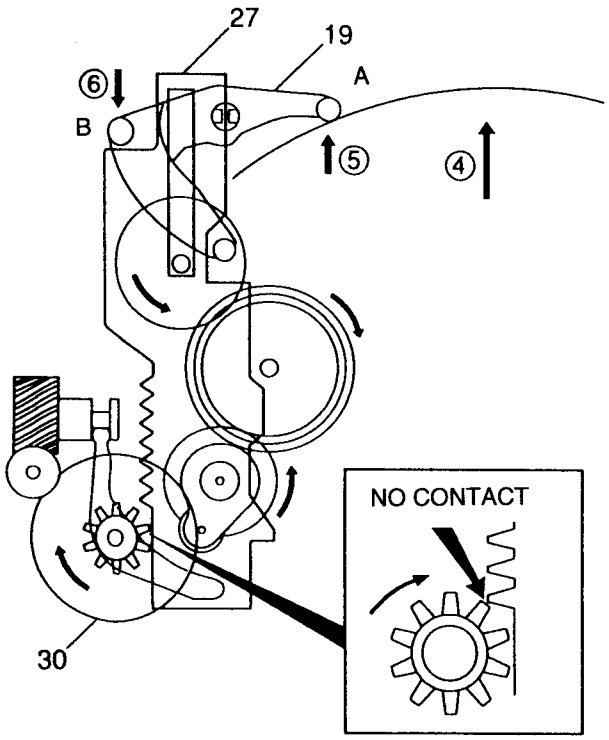




MECHANISM OPERATION DESCRIPTION

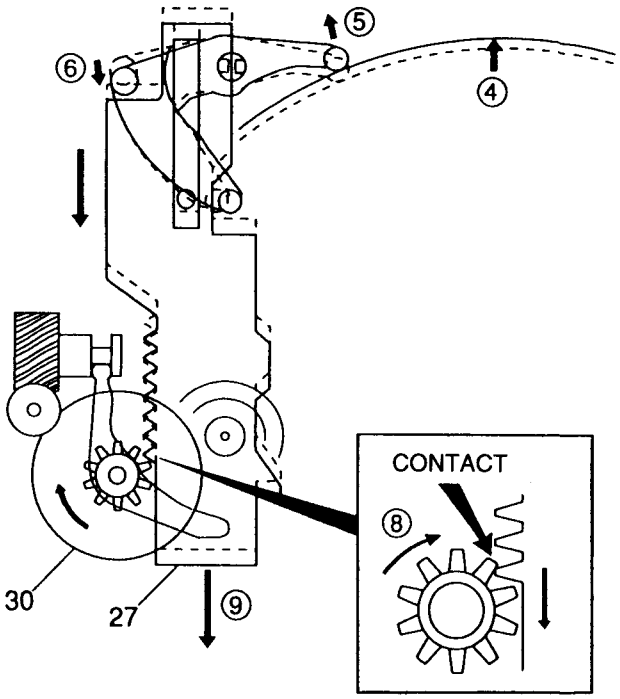
(2) PUSH THE LEVER

1) When disc insert (④) to the end position, it will push away the lever (19) pin A (⑤).
2) The lever(19) in turn, will push the Slider (27) by lever pin B (⑥).



(3) SLIDER MOVEMENT

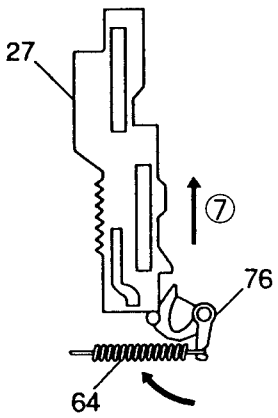
1) When slider push in (⑦), the rack gear of slider will lock to helical gear(30) (⑧).
2) Then these two gears will move together.



SLIDER POSITION OF NO DISC CONDITION

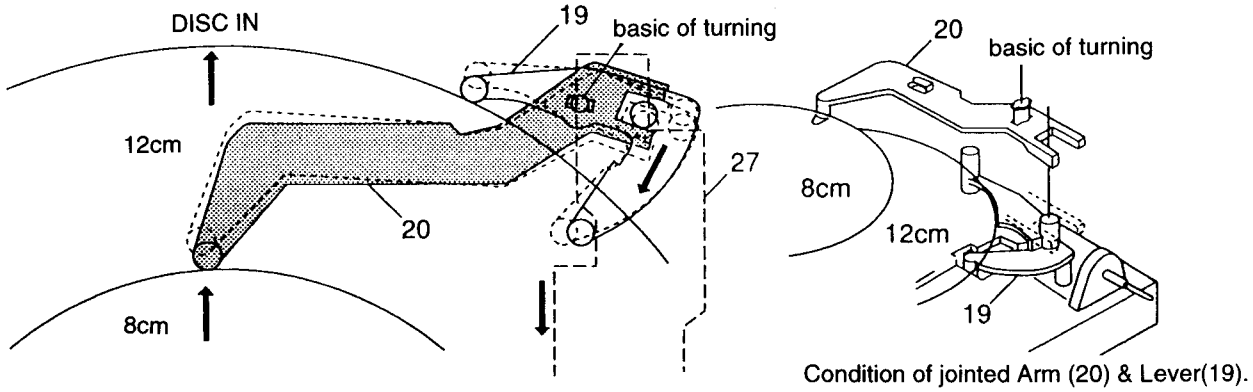
Slider gear is off contact with helical gear (30) pushing by the spring force of Holder (M) (76) (⑦).
Rack gear of slider contact to helical gear when the slider push by the lever.

BOTTOM SIDE VIEW

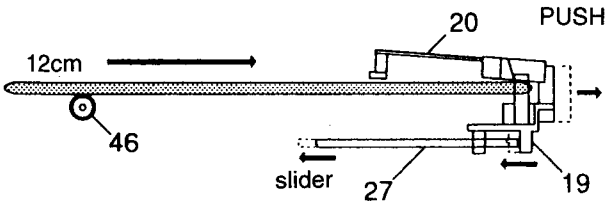


MECHANISM OPERATION DESCRIPTION

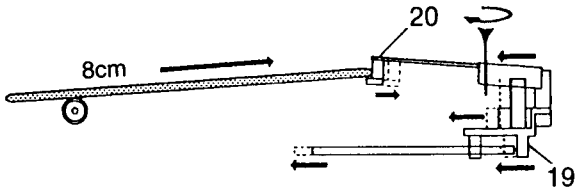
(4) Structure of disc push the lever and slider movement.
The Arm (20) is jointed to the Lever(19).



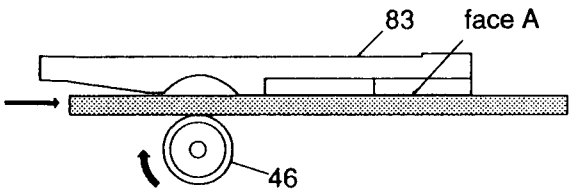
【12cm disc】
The disc will push the Lever (19).
Pin of Lever (19) will push the Slider (27).



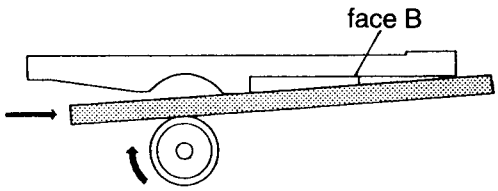
【8cm disc】
The disc will push the Arm (20).
The Lever (19) will turn with the Arm (20).
Pin of Lever (19) will push the Slider (27).



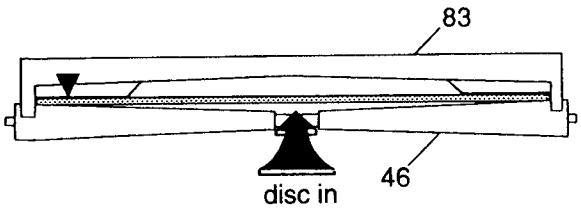
<Disc guide's face A support the disc when inserting.>

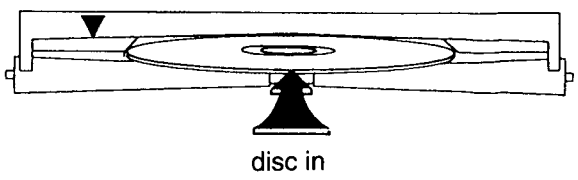


<Disc guide's face A support the disc when inserting.>



FRONT VIEW





▼···disc touching the face

MECHANISM OPERATION DESCRIPTION

3. Functions of Slider movement.

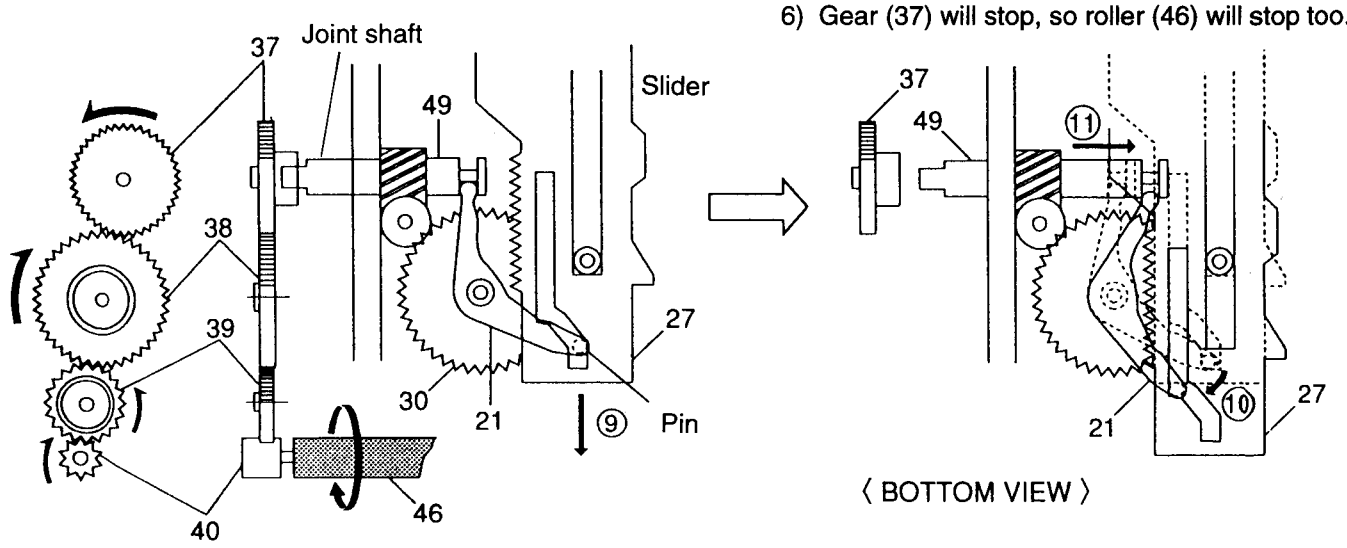
(1) Stop the roller turning.

(Slider move after the disc insert.)

The roller (46) will turn toward disc in or out direction with jointed gears and joint shaft (49) by the motor (⑪).

The roller (46) turning will stop when joint shaft is off gear (37).

1) The Arm's pin (21) joint with the groove of the slider.
2) Slider (27) will be move after disc insert (⑨).
3) The Arm (21) will move together slider (⑩).
4) The joint shaft (49) will move together Arm movement.
5) The joint shaft (49) become off gear (37) (⑪).
6) Gear (37) will stop, so roller (46) will stop too.



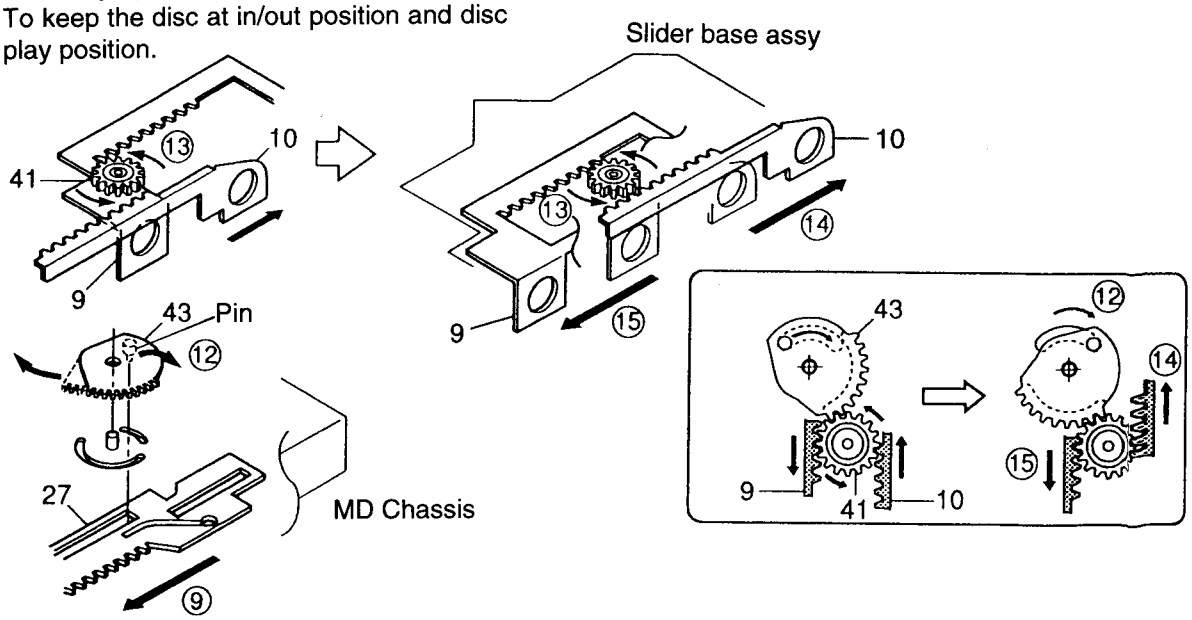
(2) Mechanism of Slider base assy

Slider base assy have 3 types of functions when slide lock gear is moved.

1. MD-assy clamp and release.
   To keep the disc at insert (and eject) position and disc play position.
2. Clamper Chassis up and down.
   To clamp or release the disc.
3. Roller assy up and down.
   To keep the disc at in/out position and disc play position.

Basic movement of Slider base assy.

1) Pin of Fan-gear (43) is joint to the slider (27).
2) Fan-gear(43) will turn (⑫) when slider move.
3) Jointed center gear (41) will turn with Fan-gear (43) (⑬).
4) Jointed slide lock gear (9, 10) will move with center gear (⑭, ⑮).

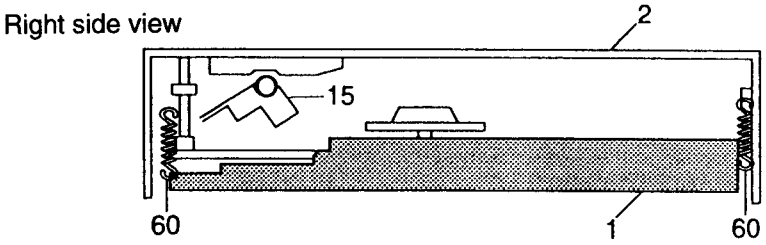


MECHANISM OPERATION DESCRIPTION

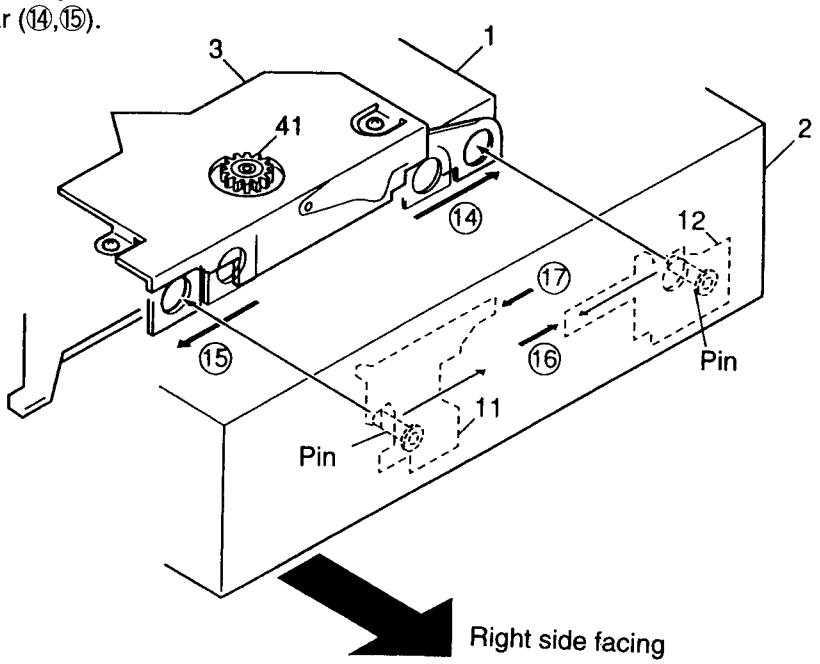
(3) Connection of Slider movement with LOCK PIN.
(Jointing condition of MD-CHASSIS ASSY (1) and MAIN-CHASSIS ASSY (2).)
This mechanism have 2 main components.

1. MD CHASSIS ASSY
   This Unit have many gears and motor for basic movement, and Optical pick-up assy for pick up of the disc signal.
2. MAIN CHASSIS ASSY
   This Unit consist of metal body frame and Roller assy (15) for disc insert and eject movement.

MD Chassis assy was hung by springs (60) of Main Chassis assy.



- Slider base assy (3) was asembled in MD Chassis (1).
  Lock plate (11, 12) was assembled in Main Chassis ASSY (2).
  Pin of lock plate (11, 12) will joint to the hole of slide lock gear, and it move with the slide lock gear (⑭,⑮).



※ At both side of Main Chassis have lock plate (11, 12) unit.
Left side lock plate unit move together with the right side through joined roller assy.

MECHANISM OPERATION DESCRIPTION

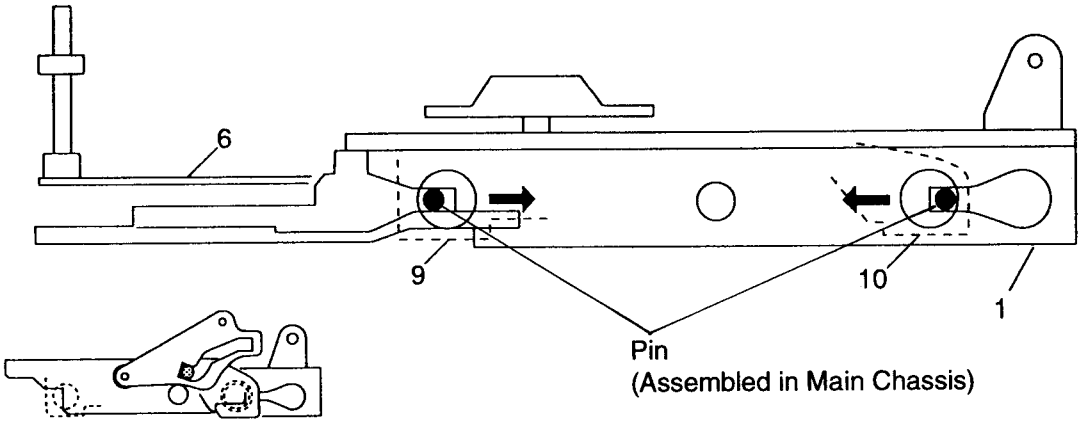
(4) MD Chassis hold and release.

Roller will move the disc toward insert or eject direction by roller turning.
MD Chassis assy and Main Chassis assy must lock for the disc passage fix.

When disc in play back condition, disc can not play by vibration of car running if MD Chassis is locked.
Therefore there is need for MD Chassis to release from Main Chassis for guard of vibration. (condition of support the spring tension only)

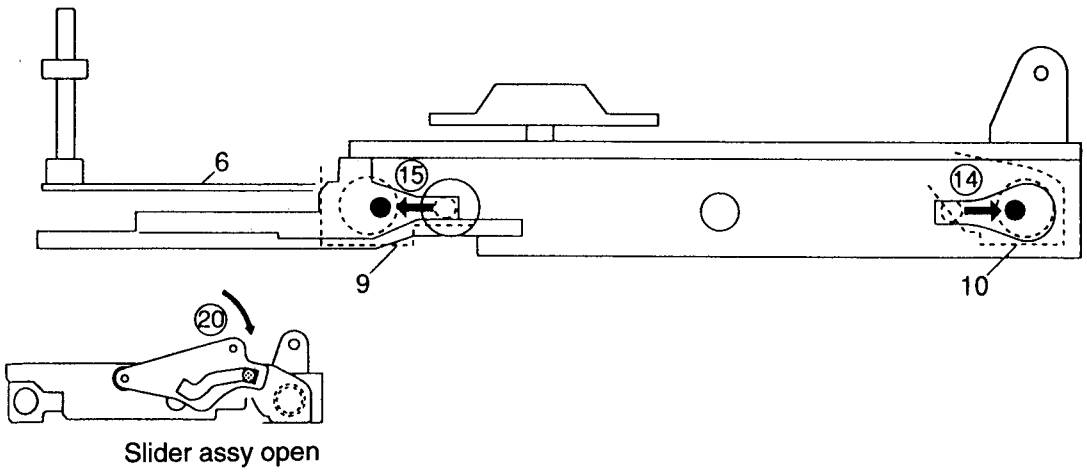
MD Chassis lock condition

The pin of lock plate is insert to the groove of MD Chassis (1) at both side.



MD Chassis release condition

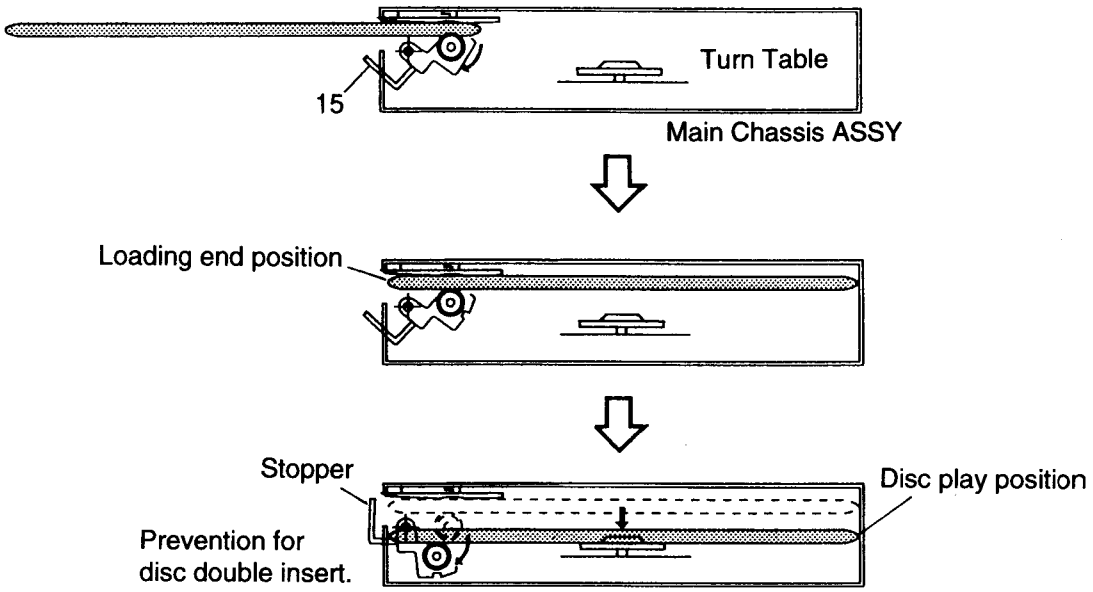
MD Chassis is in free condition when pin is remove to outside (⑭,⑮).



MECHANISM OPERATION DESCRIPTION

(5) Movement of Roller Assy.

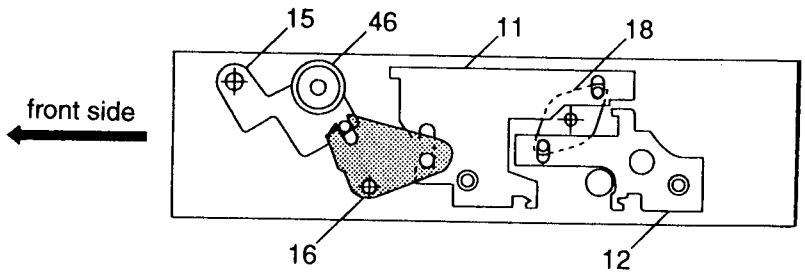
Roller will stop turning when disc is inserted.
Roller assy (15) will move to down side for the disc to sit onto the Turn Table.
Roller will move to upper side in order to catch the disc when disc eject.



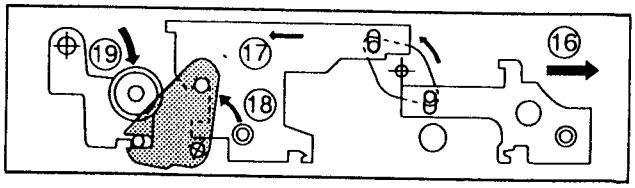
Structure of roller assy movement.

Roller assy (15) will move up and down with joined LINK (16) by lock plate's (11, 12) movement.

Top position of roller.
(Lock plate is close)



Bottom position of roller.
(Lock plate is open)



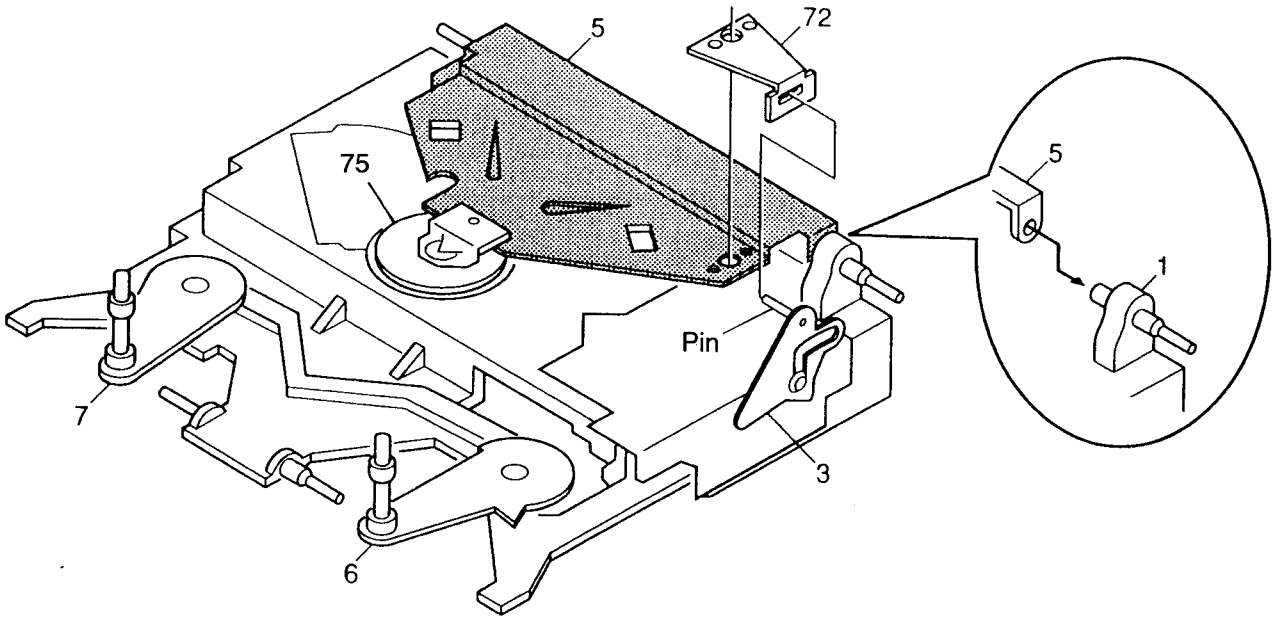
MECHANISM OPERATION DESCRIPTION

(6) Movement of Clamper Chassis assy.

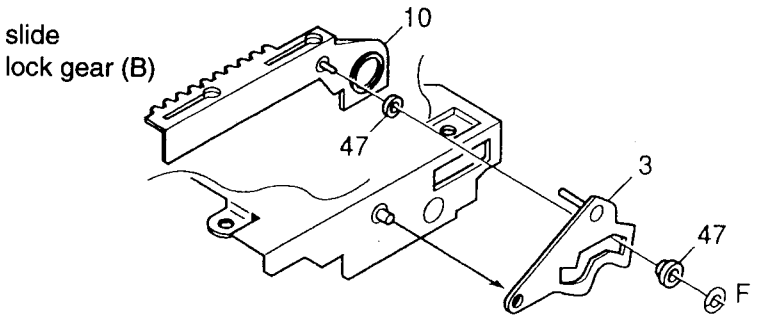
Clamper (75) must press down the disc when disc playing, and it must release during disc inserting and eject.

Clamper Chassis will connect with pin of arm assy (3) in slider assy by Flat plate.
Arm assy will join to slide lock gear (10).
Clamper Chassis will move tofgether slide lock gear (10) (⑭).

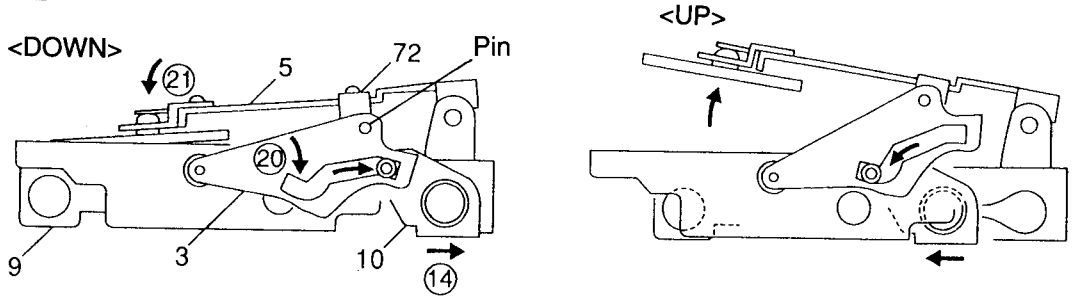
connection



structure



movement

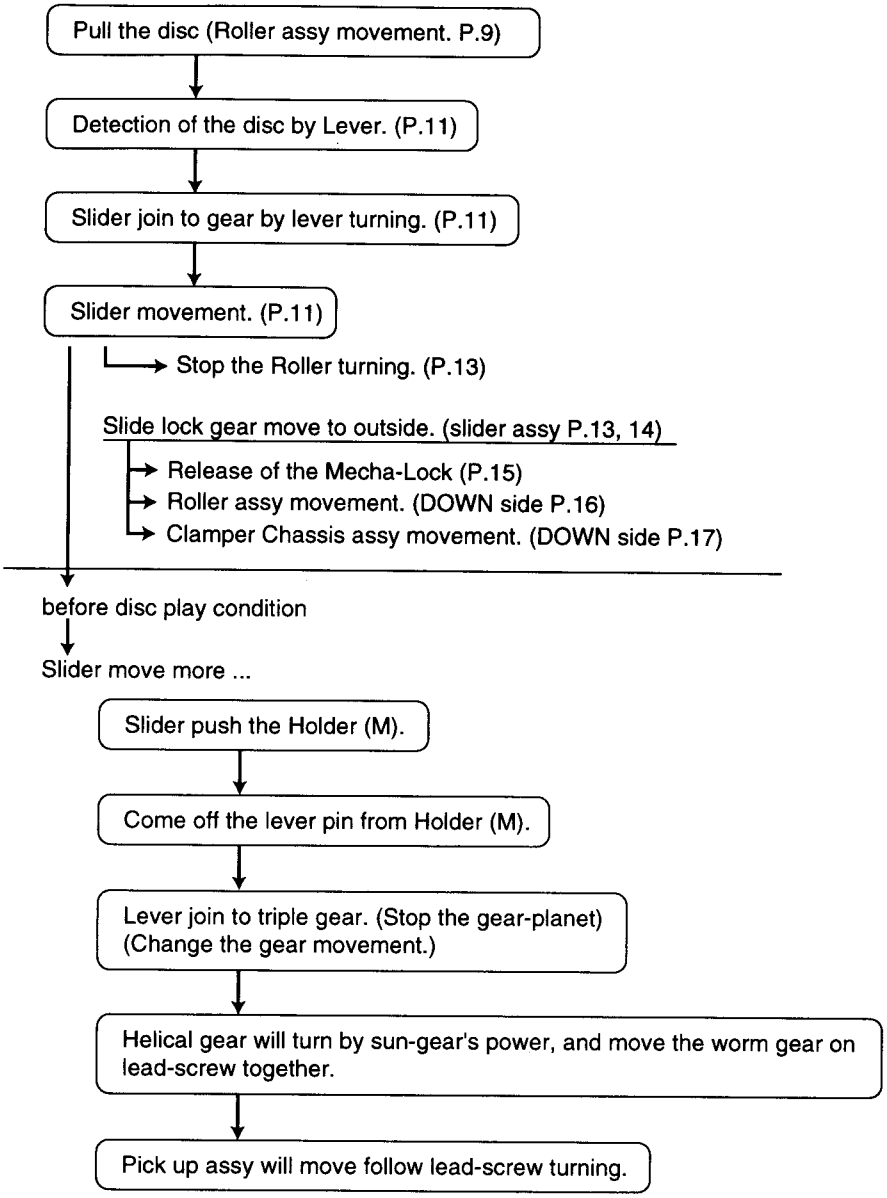


MECHANISM OPERATION DESCRIPTION

4. Slide movement of Pick-up assy.

(1) Flow chart for lead to Pick up assy movement.

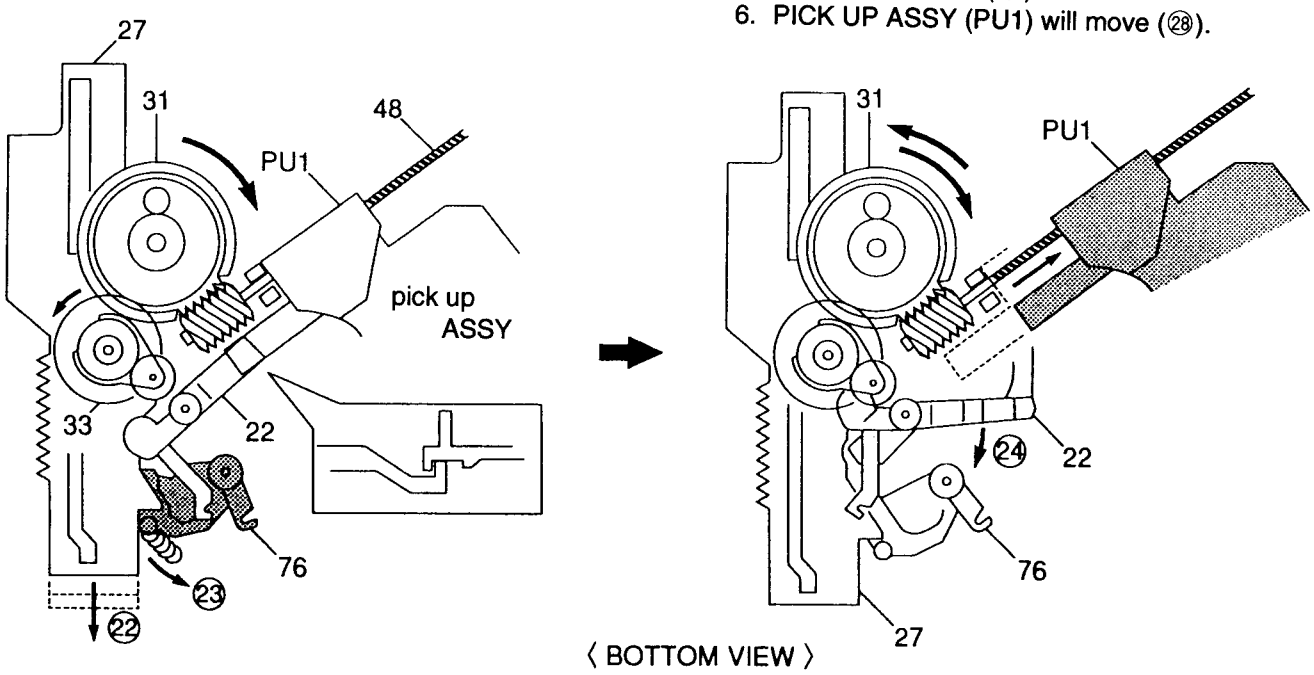
flow


Pull the disc (Roller assy movement. P.9)
Detection of the disc by Lever. (P.11)
Slider join to gear by lever turning. (P.11)
Slider movement. (P.11)
Stop the Roller turning. (P.13)
Slide lock gear move to outside. (slider assy P.13, 14)
Release of the Mecha-Lock (P.15)
Roller assy movement. (DOWN side P.16)
Clamper Chassis assy movement. (DOWN side P.17)
before disc play condition
Slider move more ...
Slider push the Holder (M).
Come off the lever pin from Holder (M).
Lever join to triple gear. (Stop the gear-planet)
(Change the gear movement.)
Helical gear will turn by sun-gear's power, and move the worm gear on lead-screw together.
Pick up assy will move follow lead-screw turning.

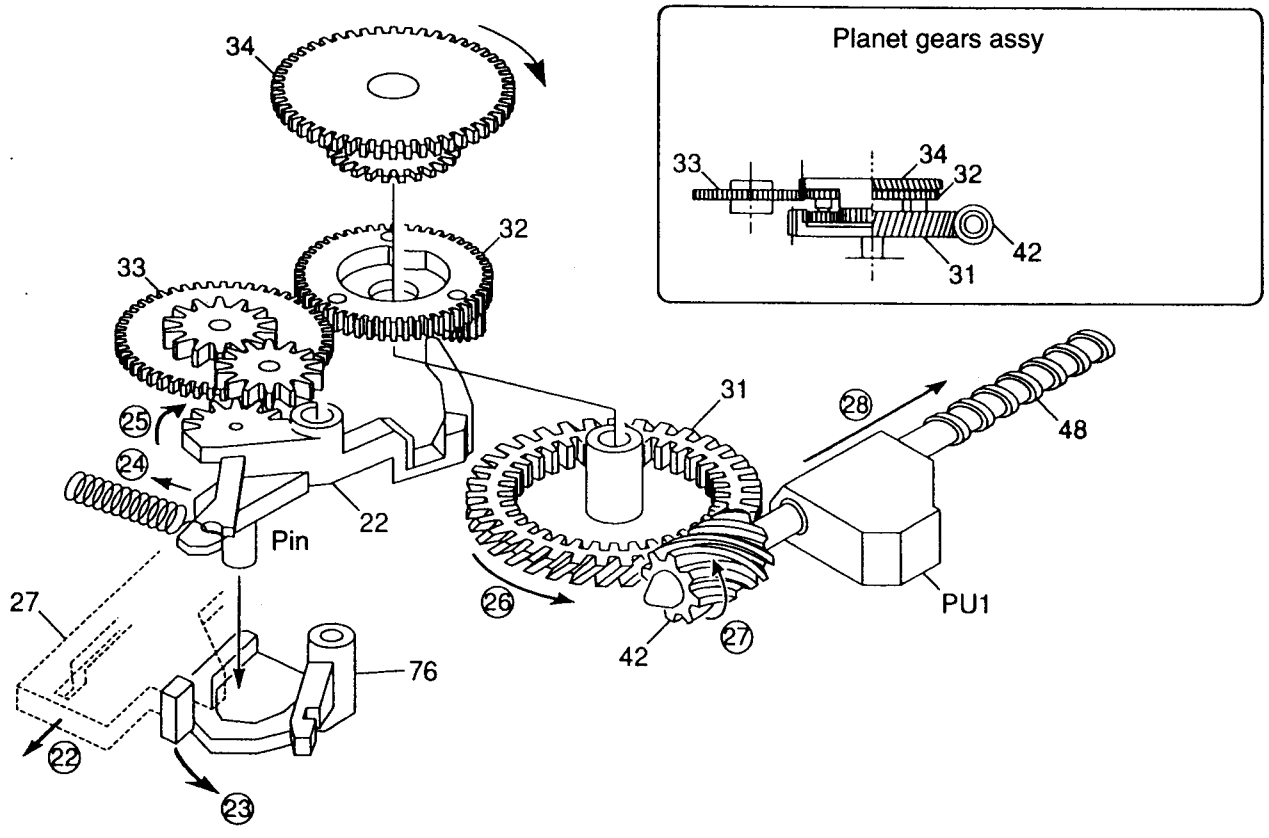
MECHANISM OPERATION DESCRIPTION

(2) Illustration of Pick up assy movement.

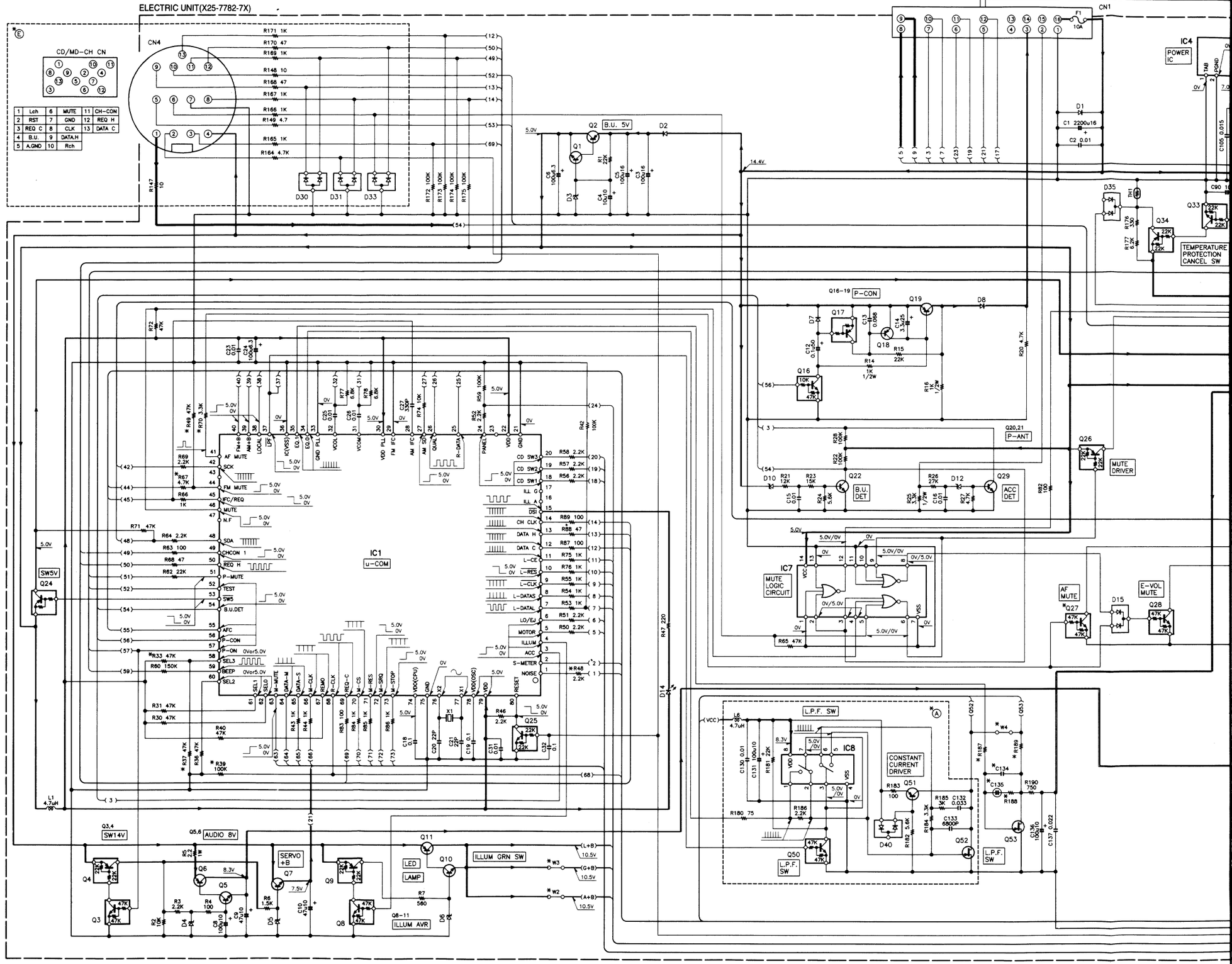
1. Slider (27) push the holder (76) (㉒).
2. The pin will release from holder (76) (㉓). (Come off the lock between lever (22) and Pick up assy (PU1) (㉔))
3. Lever (22) join to triple gear (㉕). (Triple gear and planet gear assy will stop.)
4. Change the gear movement.
5. Helical gear (31) will turn (㉖), and worm gear (42) will turn (㉗).
6. PICK UP ASSY (PU1) will move (㉘).



〈 BOTTOM VIEW 〉

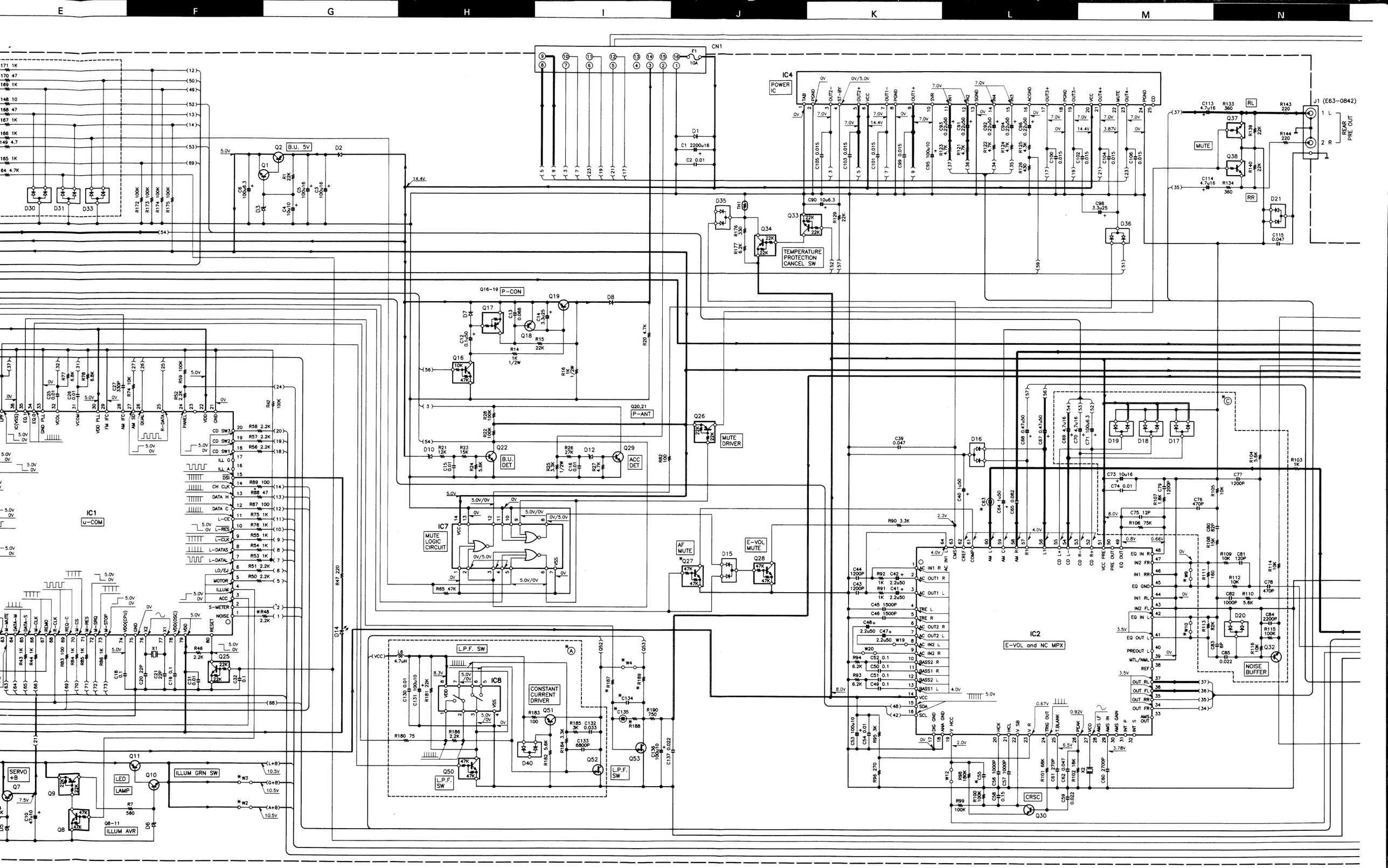


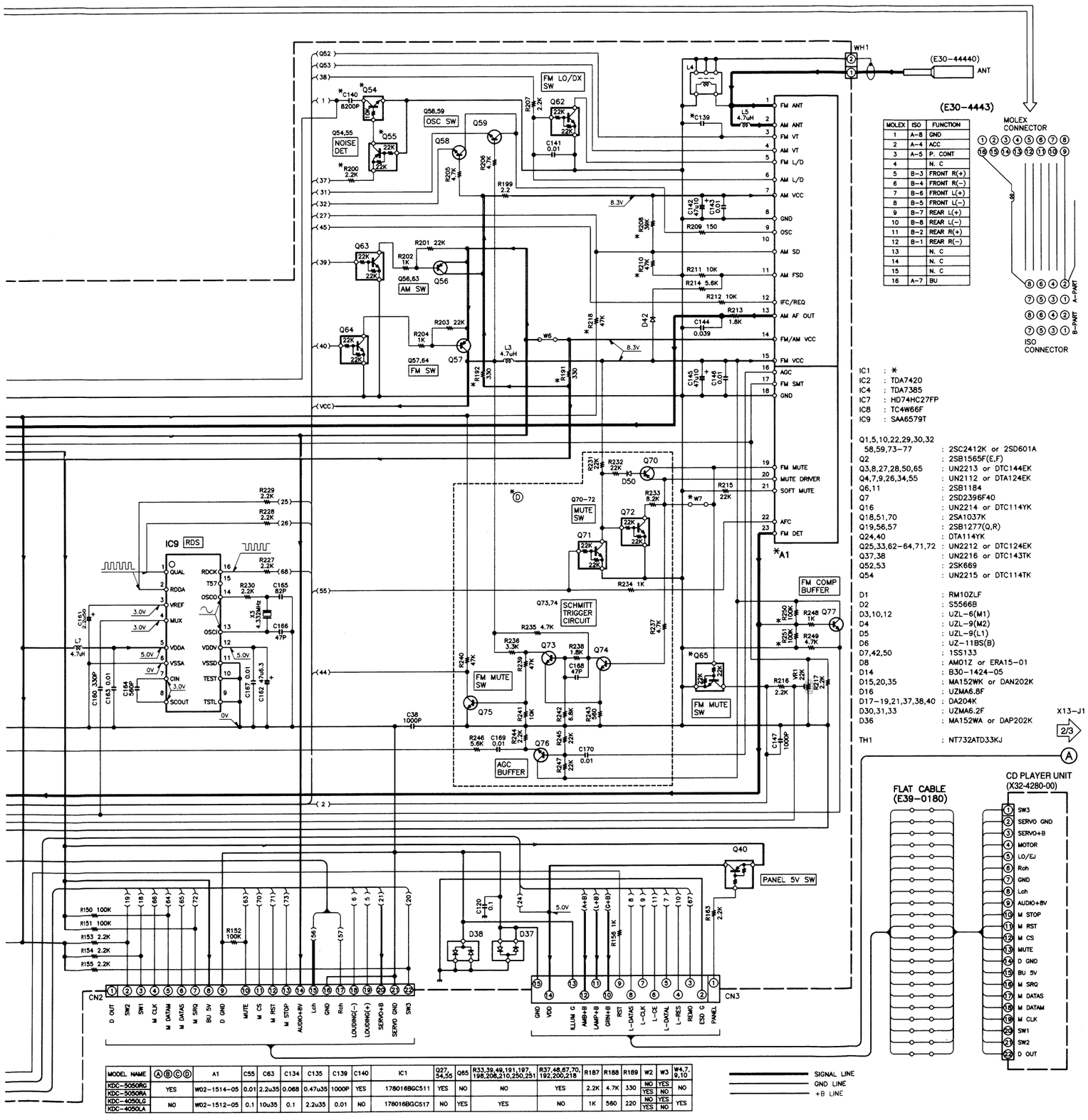
〈 BOTTOM VIEW 〉



DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.


IC1
μ-COM
IC2
E-VOL and NC MPX
IC4
POWER IC
IC7
MUTE LOGIC CIRCUIT
IC8
CONSTANT CURRENT DRIVER
Q1
Q2 B.U. 5V
Q16-19 P-CON
Q20,21 P-ANT
Q22 B.U. DET
Q29 ACC DET
Q26 MUTE DRIVER
Q27 AF MUTE
Q28 E-VOL MUTE
Q33
Q34
TEMPERATURE PROTECTION CANCEL SW
Q37 MUTE
Q38
Q25
Q30 CRSC
Q32 NOISE BUFFER
Q50 L.P.F. SW
Q51
Q52
Q53 L.P.F. SW
Q7 SERVO +B
Q8-11 ILLUM AVR
LED LAMP
ILLUM GRN SW
J1 (E63-0842)
REAR PRE OUT
RL
RR
CN1
F1 10A
TH1
D1
D2
D3
D7
D8
D10
D12
D14
D15
D16
D17
D18
D19
D20
D21
D30
D31
D33
D35
D36
D40
D6
W1
W2
W3
W4
W5
W6
W7
W8
W9
W10
W11
W12
W19
W20
CD SW3
CD SW2
CD SW1
ILL G
ILL A
DSI
CH CLK
DATA H
DATA C
L-CE
L-RES
L-CLK
L-DATAS
L-DATAL
LO/EJ
MOTOR
ILLUM
ACC
S-METER
NOISE
RESET
VDD
VDD(OSC)
VDD(CPU)
GND
X1
X2
EQ IN RR
EQ IN FR
EQ GND
EQ IN RL
EQ IN FL
EQ OUT L
PREOUT
MTL/NML
REF
OUT RL
OUT FL
OUT RR
OUT FR
AMS OUT
VCC
SDA
SCL
DIG GND
ANA GND
Y HCC
HCK
HCL
SY SB
SY R
TRIG OUT
EBLANK
PEAK
VCO
AMS LF
AMS IN
AMS GAIN
INT P
INT S
CMOS
CREF
COMP
AM L
AM C
AM R
CD L+
CD L-
CD R-
CD R+
VCC PRE
PRE OUT
EQ OUT
IN1 L
IN1 R
AC IN1 R
AC OUT1 R
AC OUT1 L
TRE L
TRE R
AC OUT2 R
AC OUT2 L
AC IN2 L
AC IN2 R
BASS2 R
BASS2 L
BASS1 R
BASS1 L
VCC
SDA
SCL
14.4V
5.0V
2.3V
4.0V
3.5V
8.0V
3.78V
6.5V
0.92V
0.67V
0.8V
0.66V
3.87V
7.5V
10.5V
(L+B)
(G+B)
(A+B)



MOLEX	ISO	FUNCTION
1	A-8	GND
2	A-4	ACC
3	A-5	P. CONT
4		N. C
5	B-3	FRONT R(+)
6	B-4	FRONT R(−)
7	B-6	FRONT L(+)
8	B-5	FRONT L(−)
9	B-7	REAR L(+)
10	B-8	REAR L(−)
11	B-2	REAR R(+)
12	B-1	REAR R(−)
13		N. C
14		N. C
15		N. C
16	A-7	BU

IC1 : *
IC2 : TDA7420
IC4 : TDA7385
IC7 : HD74HC27FP
IC8 : TC4W66F
IC9 : SAA6579T

Q1,5,10,22,29,30,32 58,59,73−77	: 2SC2412K or 2SD601A
Q2	: 2SB1565F(E,F)
Q3,8,27,28,50,65	: UN2213 or DTC144EK
Q4,7,9,26,34,55	: UN2112 or DTA124EK
Q6,11	: 2SB1184
Q7	: 2SD2396F40
Q16	: UN2214 or DTC114YK
Q18,51,70	: 2SA1037K
Q19,56,57	: 2SB1277(Q,R)
Q24,40	: DTA114YK
Q25,33,62−64,71,72	: UN2212 or DTC124EK
Q37,38	: UN2216 or DTC143TK
Q52,53	: 2SK669
Q54	: UN2215 or DTC114TK
D1	: RM10ZLF
D2	: S5566B
D3,10,12	: UZL−6(M1)
D4	: UZL−9(M2)
D5	: UZL−9(L1)
D6	: UZ−11BS(B)
D7,42,50	: 1SS133
D8	: AM01Z or ERA15−01
D14	: B30−1424−05
D15,20,35	: MA152WK or DAN202K
D16	: UZMA6.8F
D17−19,21,37,38,40	: DA204K
D30,31,33	: UZMA6.2F
D36	: MA152WA or DAP202K
TH1	: NT732ATD33KJ

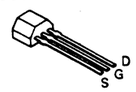
MODEL NAME	ⒶⒷⒸⒹ	A1	C55	C63	C134	C135	C139	C140	IC1	Q27, 54,55	Q65	R33,39,49,191,197, 198,208,210,250,251	R37,48,67,70, 192,200,218	R187	R188	R189	W2	W3	W4,7, 9,10
KDC-5050RG	YES	W02-1514-05	0.01	2.2u35	0.068	0.47u35	1000P	YES	178016BGC511	YES	NO	NO	YES	2.2K	4.7K	330	NO	YES	NO
KDC-5050RA																	YES	NO	
KDC-4050LG	NO	W02-1512-05	0.1	10u35	0.1	2.2u35	0.01	NO	178016BGC517	NO	YES	YES	NO	1K	560	220	NO	YES	YES
KDC-4050LA																	YES	NO	

DTA114EK
DTA114YK
DTA124EK
DTC114TK
DTC114YK
DTC124EK
DTC143TK
DTC144EK
2SA1362
2SC2412K

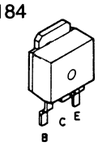
TA78L05F

DA204K

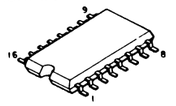
2SK669



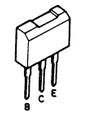
2SB1184



SAA6579T



2SB1277



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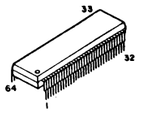
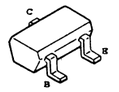
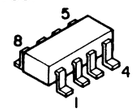


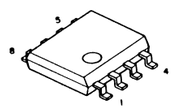
2SA1037K



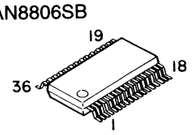
TC4W66F



NJM4565MD



AN8806SB



DAN202K

KDC-5050RG/RA,4050LG/LA

KENWOOD

SWITCH UNIT(X13-9022-XX)

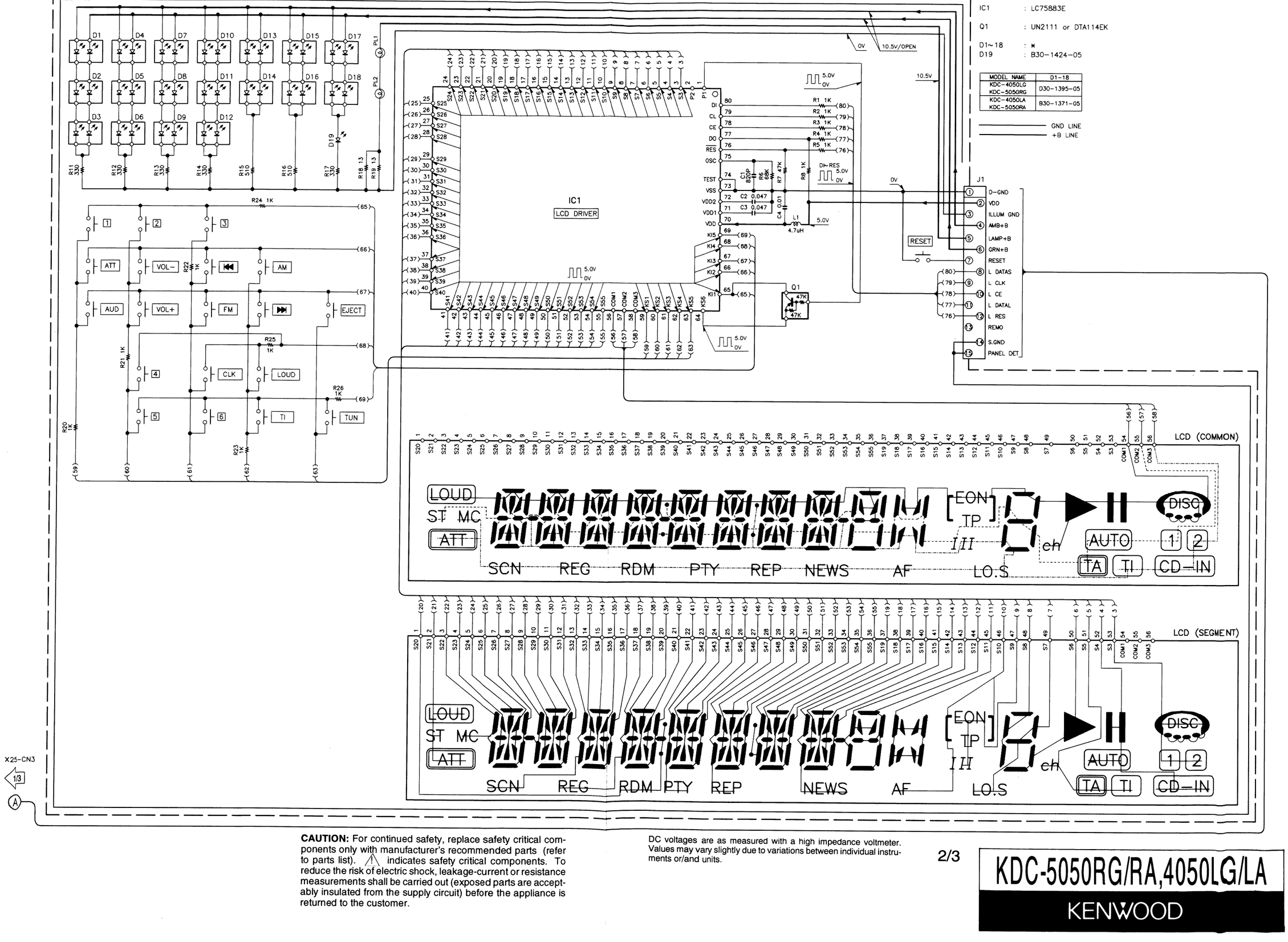
IC1 : LC75883E

Q1 : UN2111 or DTA114EK

D1~18 : *
D19 : B30-1424-05

MODEL NAME	D1-18
KDC-4050LG KDC-5050RG	D30-1395-05
KDC-4050LA KDC-5050RA	B30-1371-05

GND LINE
+B LINE



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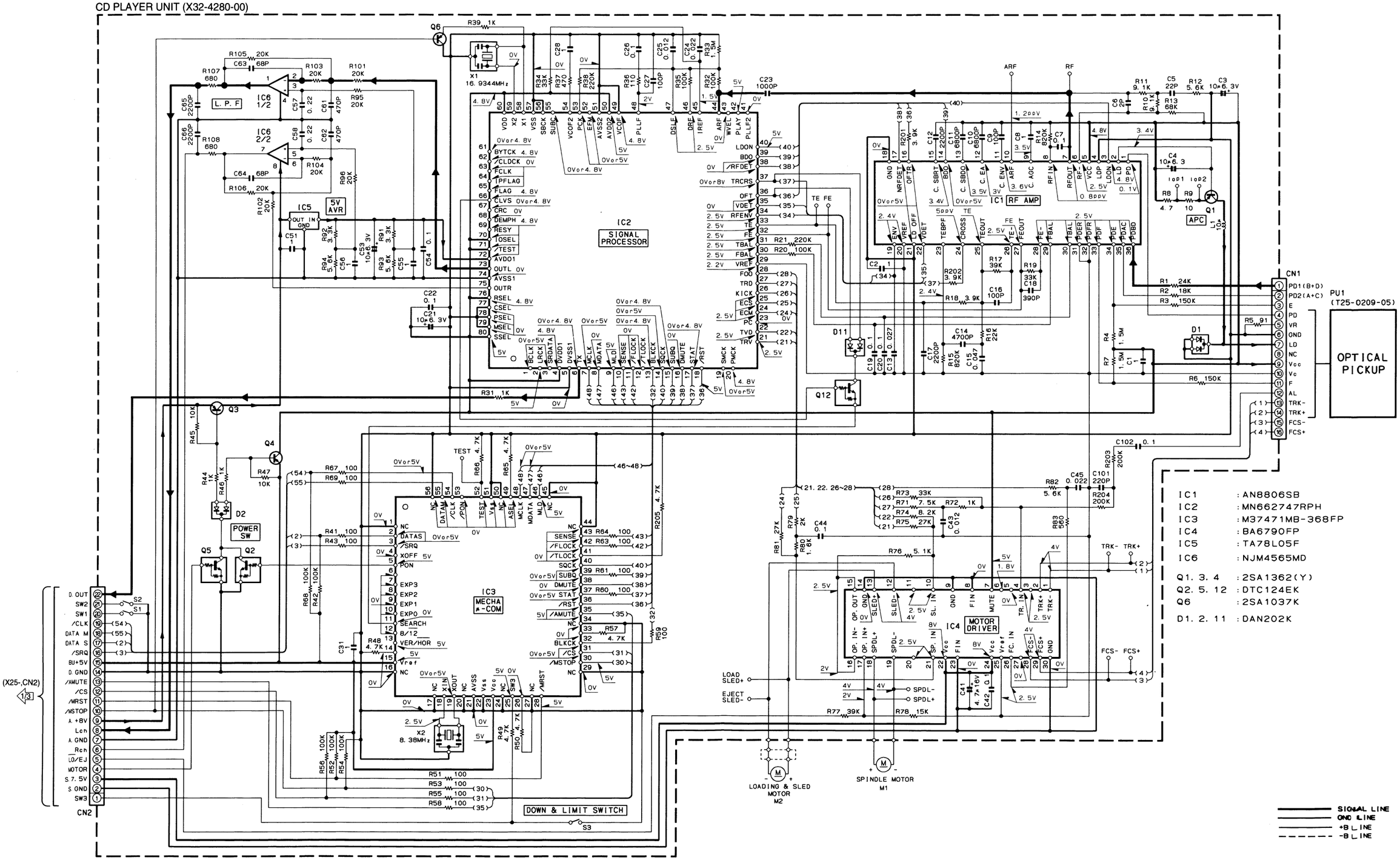
KDC-5050RG/RA,4050LG/LA

KENWOOD

CD PLAYER UNIT (X32-4280-00)



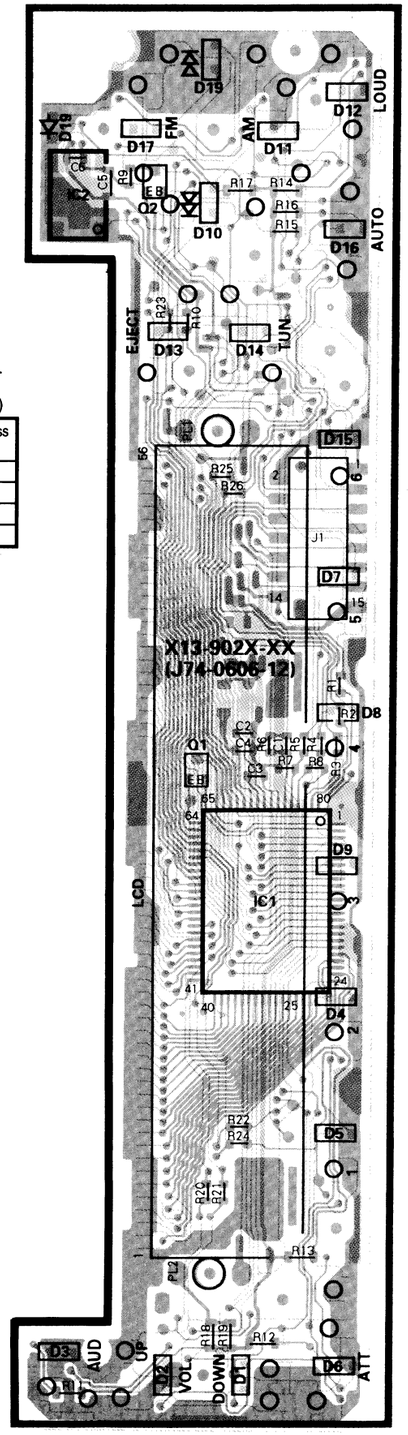
CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

KDC-5050RG/RA,4050LG/LA
KENWOOD

PC BOARD (Component side view)

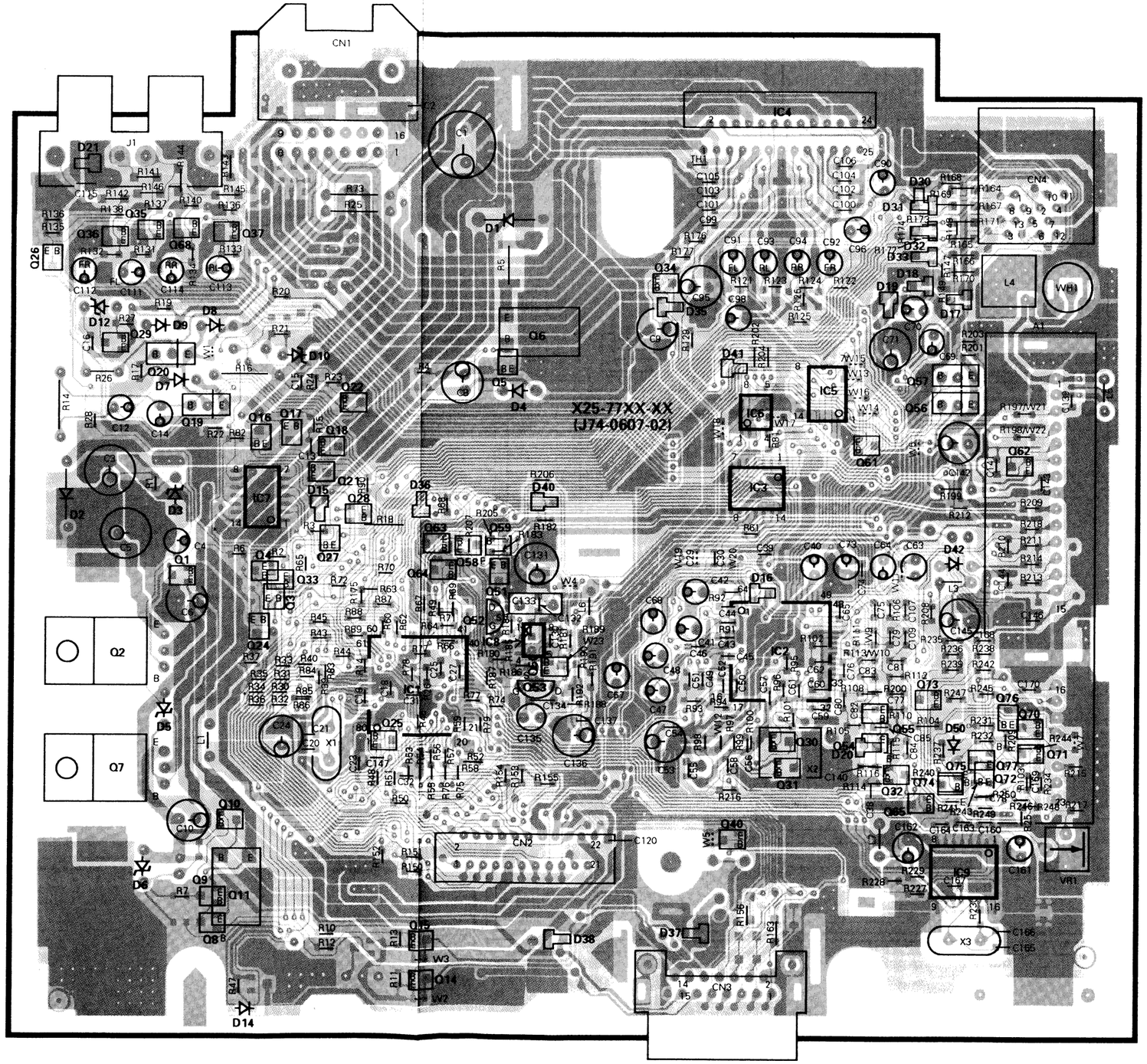
SWITCH UNIT (X13-9022-XX)



SWITCH UNIT
(X13-9022-XX)

Ref. NO.		Address
IC	Q	
1		5B
2		2A
	1	4B
	2	2B

ELECTRIC UNIT (X25-7782-XX)

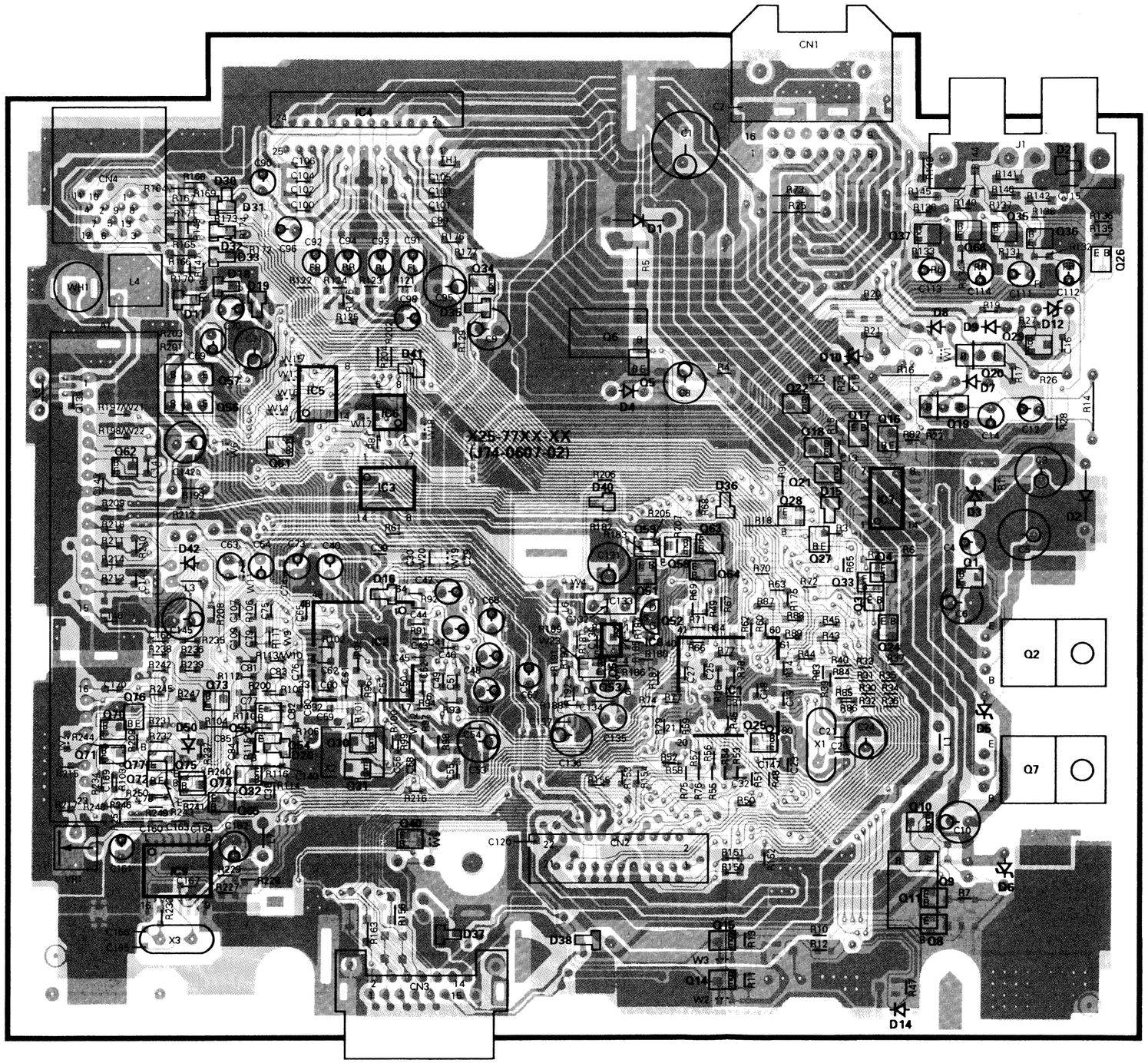

CN1
J1
D21
R141
R146
R142
R140
R145
R136
R135
R138
R137
Q35
Q36
Q68
Q37
Q26
R132
R131
R133
C112
C111
C114
C113
R19
D12
R27
D9
D8
Q29
R20
R21
C16
D10
R26
R17
Q20
D7
R16
R23
Q22
R14
R28
C12
Q19
C14
R77
R82
Q16
Q17
Q18
C15
C3
D2
D3
Q21
D15
Q28
R99
R18
C5
C1
Q1
R6
R2
Q4
Q27
R65
Q33
R72
R70
R63
R75
R87
R67
R69
R88
R89
R66
R62
R45
R43
R44
R64
Q24
R37
R33
R40
R84
R35
R31
R34
R30
R85
R36
R32
R86
C24
C21
C20
X1
C22
C147
R49
R51
R54
R55
R56
R57
R58
R52
R59
R76
R75
R74
R154
R158
R155
C10
Q10
Q9
Q11
R7
D6
R10
R12
R13
Q12
Q8
R11
Q14
W3
W2
D14
R47
D1
R5
Q6
Q5
D4
X25-77XX-XX
(J74-0607-02)
IC4
TH1
C105
C104
C103
C102
C101
C100
C99
C106
C90
D20
R168
R169
R164
R167
CN4
D31
R173
R174
R165
R166
D32
D33
R176
R177
C91
C93
C94
C92
C96
R171
R170
L4
WH1
Q34
C95
C98
D35
R125
D18
D12
D17
C70
C71
C69
R203
R201
D41
R124
R123
R122
R129
IC5
IC6
W15
W13
W16
W14
W17
Q57
Q56
R197/W21
R198/W22
Q62
Q61
IC3
D36
D40
R206
R205
R182
R183
R181
R204
R208
R210
R209
R218
R211
R214
R213
D42
L3
C131
C132
C133
C134
C135
C136
C137
W4
Q63
Q64
Q51
Q52
Q53
IC8
IC1
C31
C30
C29
C28
C27
C26
C25
C23
C22
R53
R56
R57
R58
R52
R59
R76
R75
R74
R154
R158
R155
R156
R157
R159
R160
R161
R162
R163
C120
CN2
W5
Q40
R151
R150
R153
R152
D38
D37
CN3
C68
C42
C97
C44
C91
C43
C45
C46
C48
C61
C49
C50
C56
C47
C58
C59
C60
C62
C63
C64
C40
C73
D15
IC2
R102
C81
C83
C76
C82
C77
C78
C79
C80
R108
R105
R106
C75
C74
C107
C108
R228
R227
IC9
C161
VR1
R229
R230
R234
R235
R236
R238
R239
R242
C145
C146
C170
R112
Q73
R247
Q76
Q70
Q71
Q72
Q77
Q75
Q74
R244
R245
R246
R248
R249
R250
R251
R252
R253
R254
R255
R256
R257
R258
R259
R260
R261
R262
R263
R264
R265
R266
R267
R268
R269
R270
R271
R272
R273
R274
R275
R276
R277
R278
R279
R280
R281
R282
R283
R284
R285
R286
R287

PC BOARD (Foil side view)

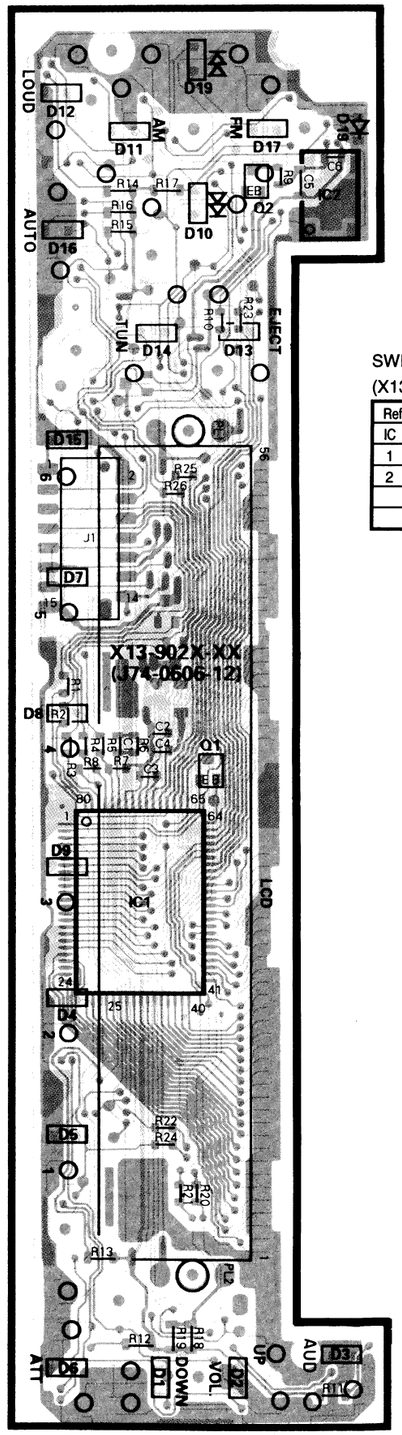
ELECTRIC UNIT
(X25-7782-XX)

Ref. NO.		Address
IC	Q	
1		5N
2		5L
3		4L
4		2L
5		3L
6		3L
7		4O
8		5M
9		6K
	1	4O
	2	5P
	3	4O
	4	4O
	5	3M
	6	3M
	7	5P
	8	6O
	9	6O
	10	6O
	11	6O
	14	6N
	15	6N
	16	4O
	17	4O
	18	4N
	19	3O
	20	3O
	21	4N
	22	3N
	24	5O
	25	5N
	26	3P
	27	4N
	28	4N
	29	3O
	30	5L
	31	5L
	32	5K
	33	4O
	34	3M
	35	2O
	36	3O
	37	2O
	40	6L
	50	5M
	51	4M
	52	5N
	53	5M
	54	5L
	55	5L
	56	3K
	57	3K
	58	4N
	59	4N
	61	4L
	62	4K
	63	4N
	64	4N
	65	6K
	68	2O
	70	5K
	71	5K
	72	5K
	73	5K
	74	5K
	75	5K
	76	5K
	77	5K

ELECTRIC UNIT (X25-7782-XX)



SWITCH UNIT (X13-9022-XX)



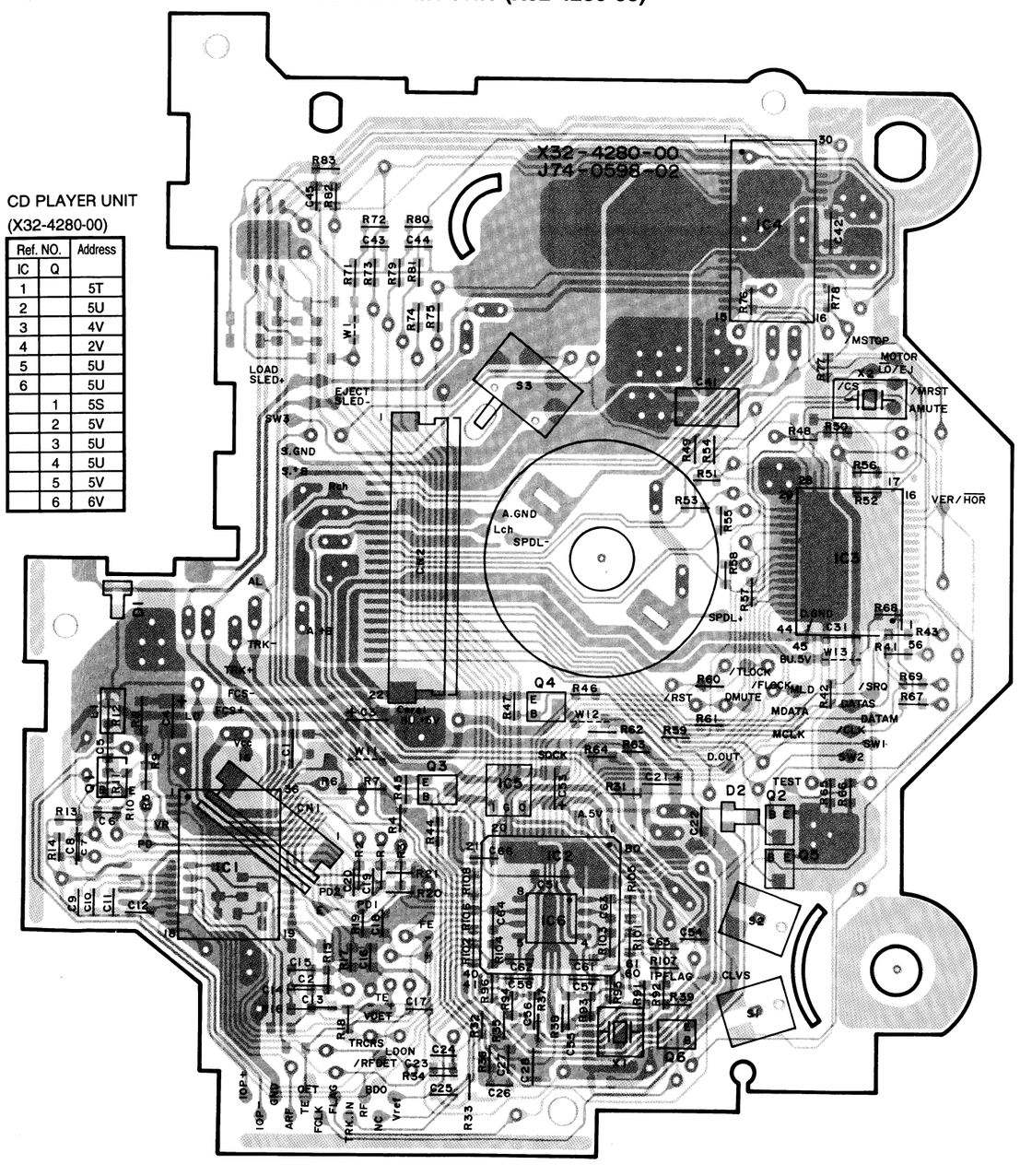
SWITCH UNIT
(X13-9022-XX)

Ref. NO.		Address
IC	Q	
1		5Q
2		2R
	1	4Q
	2	2R

Refer to the schematic diagram for the values of resistors and capacitors.

PC BOARD (Component side view)

CD PLAYER UNIT (X32-4280-00)



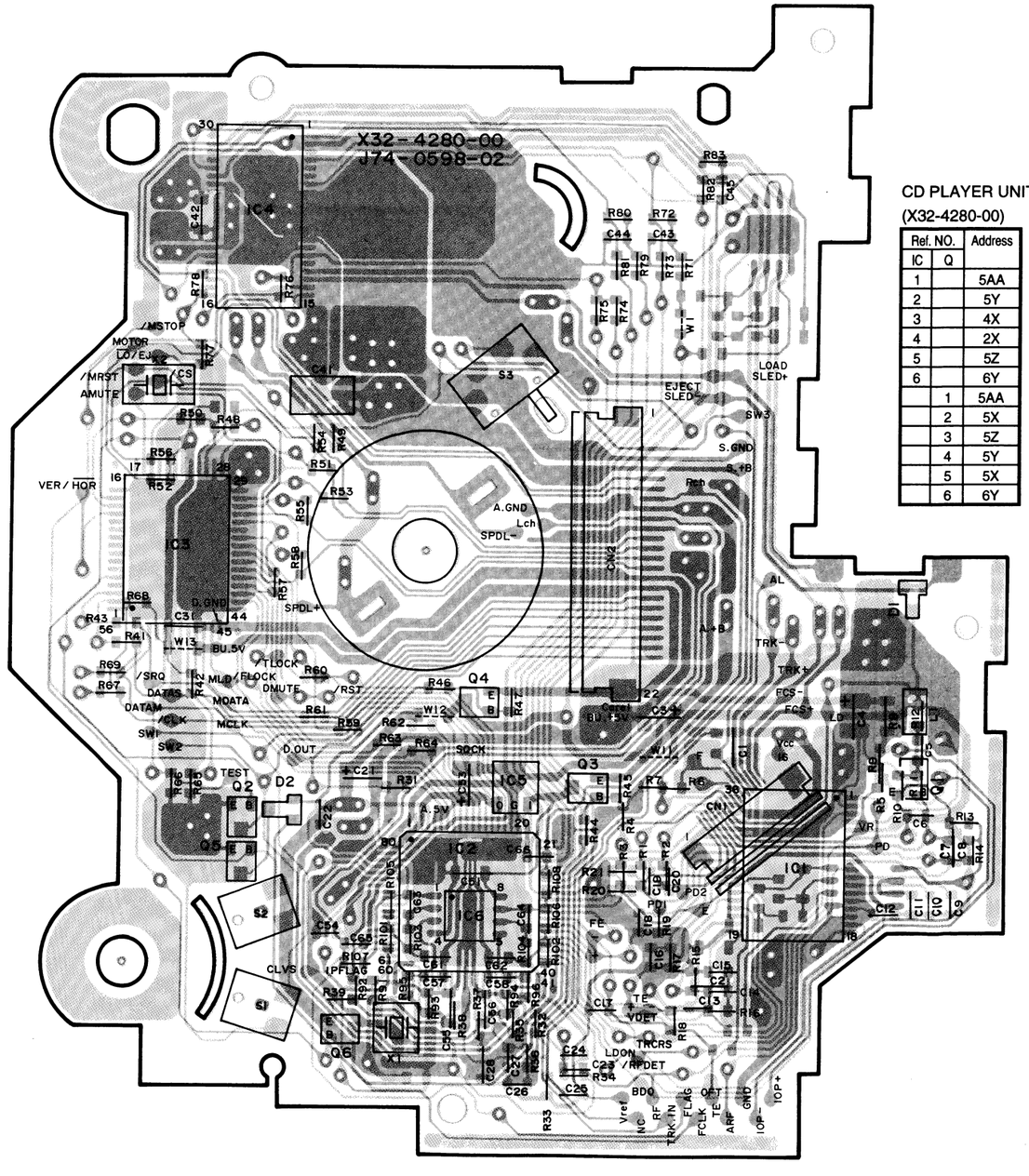
CD PLAYER UNIT (X32-4280-00)

Ref. NO.		Address
IC	Q	
1		5T
2		5U
3		4V
4		2V
5		5U
6		5U
	1	5S
	2	5V
	3	5U
	4	5U
	5	5V
	6	6V

Refer to the schematic diagram for the values of resistors and capacitors.

PC BOARD (Foil side view)

CD PLAYER UNIT (X32-4280-00)



CD PLAYER UNIT (X32-4280-00)

Ref. NO.		Address
IC	Q	
1		5AA
2		5Y
3		4X
4		2X
5		5Z
6		6Y
	1	5AA
	2	5X
	3	5Z
	4	5Y
	5	5X
	6	6Y

Refer to the schematic diagram for the values of resistors and capacitors.

ADJUSTMENT

Set the controls and switches as follows.

BALANCE	: center position	LOUD	: OFF	FM Section	AM Section
FADER	: center position			BAND : FM	BAND : AM
BASS	: center position			MODE : AUTO	MODE : AUTO
TREBLE	: center position				

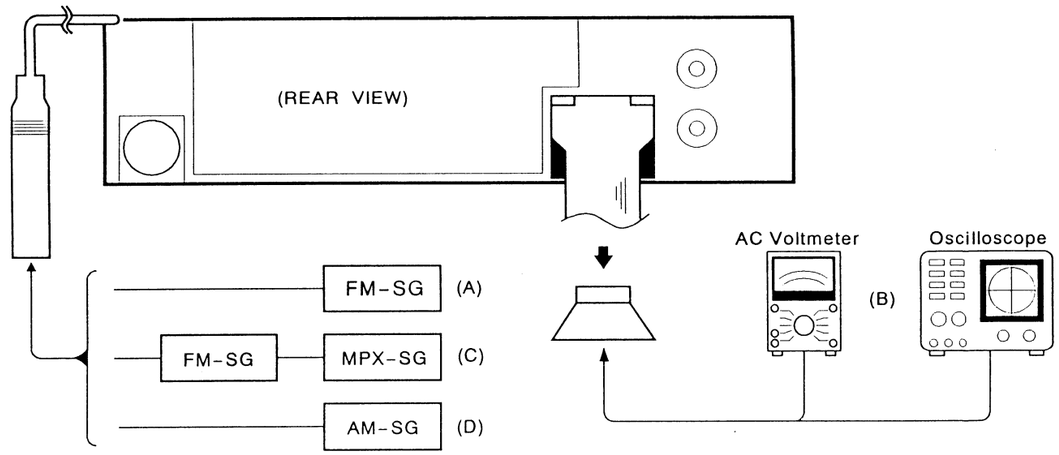
No.	ITEM	INPUT SETTINGS	OUTPUT DETTINGS	TUNER (RECEIVER)	ALIGNMENT POINTS	ALIGN FOR	FIG.
FM SECTION							
1	DISCRI-MINATOR	(A) 98.1MHz 0 dev 60dBμ (ANT input)	Connect a DC voltmeter to TP	FM 98.1MHz	T1 (F/E)	0V	(a)
2	ANRC	(C) 98.1MHz 1kHz, ±40kHz dev Pilot : ±6.0kHZ dev Selector : L or R 35dBμ (ANT input)	(B)	FM 98.1MHz	VR1	Separation 10dB	
AM SECTION							
(1)	SEEK STOP LEVEL	(D) 999kHz 0% mod 35dBμ (ANT input)	-	AM 999kHz	AM SD VR (F/E)	STOP	(b)

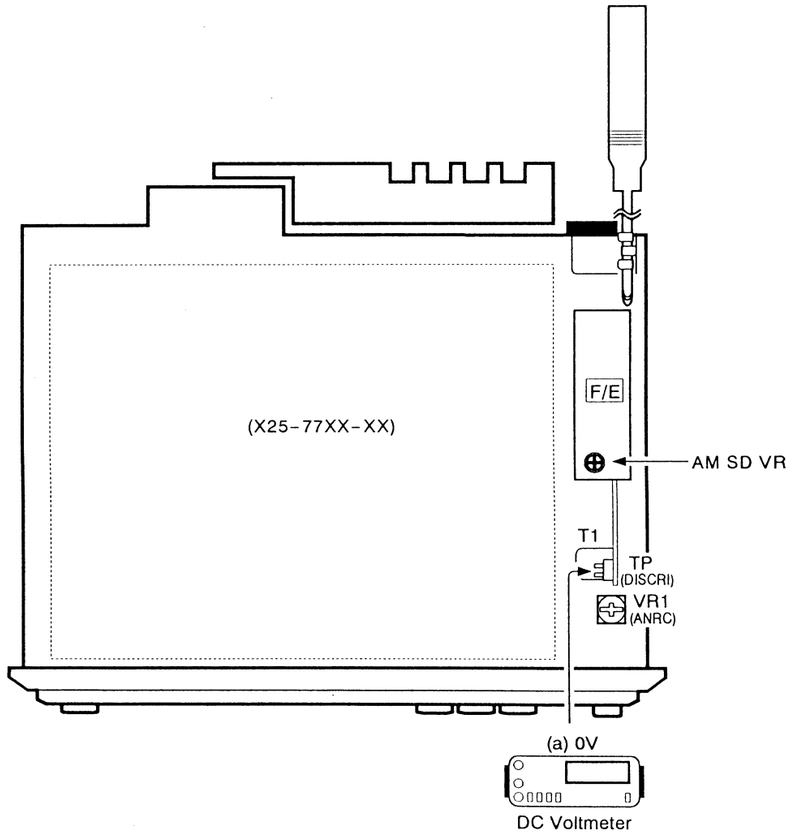
ABGLEICH

NR.	GEGENSTAND	EINGANGS	AUSGANGS	TUNER (RECEIVER)	ABGLEICH	ABGLEICHEN FUR	ABB.
UKW-ABTEILUNG							
1	DISKRI-MINATOR	(A) 98.1MHz 0 Hub 60dBμ (ANT-Eingang)	Ein Gleichstrom-voltmeter an TP anschließen.	FM 98.1MHz	T1 (F/E)	0v	(a)
2	ANRC	(C) 98.1MHz 1kHz, ±40kHz dev Pilot : ±6.0kHZ dev Wahler : L or R 35dBμ (ANT-Eingang)	(B)	FM 98.1MHz	VR1	Trennung : 10dB	
MW-ABTEILUNG							
(1)	SUCHEN HALT PEGEL	(D) 999kHz 0% mod 35dBμ (ANT input)	-	MW 999kHz	AM SD VR (F/E)	HALT	(b)

KDC-5050RG/RA,4050LG/LA

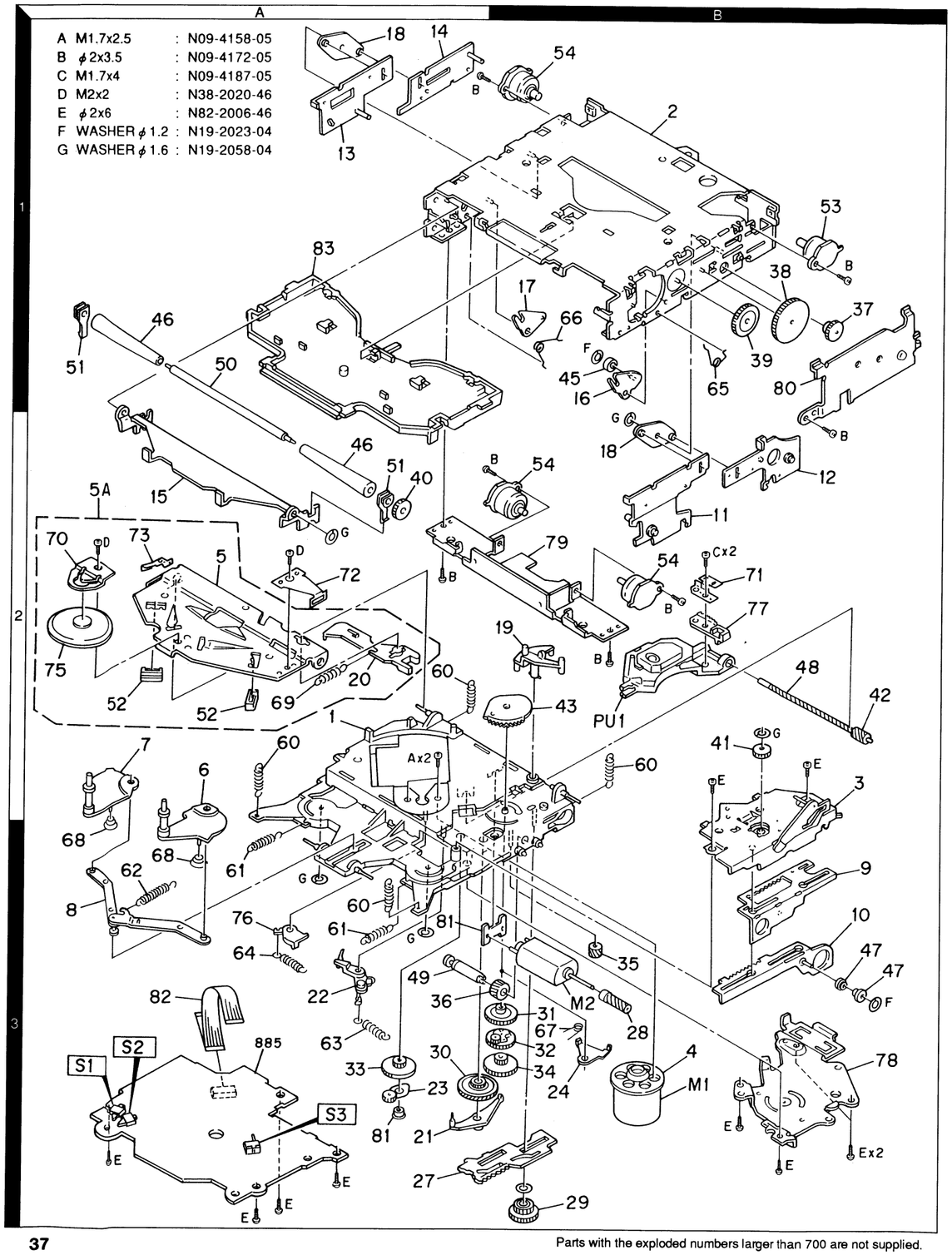
ADJUSTMENT





EXPLODED VIEW (MECHANISM)

A	M1.7x2.5	: N09-4158-05
B	φ2x3.5	: N09-4172-05
C	M1.7x4	: N09-4187-05
D	M2x2	: N38-2020-46
E	φ2x6	: N82-2006-46
F	WASHER φ1.2	: N19-2023-04
G	WASHER φ1.6	: N19-2058-04

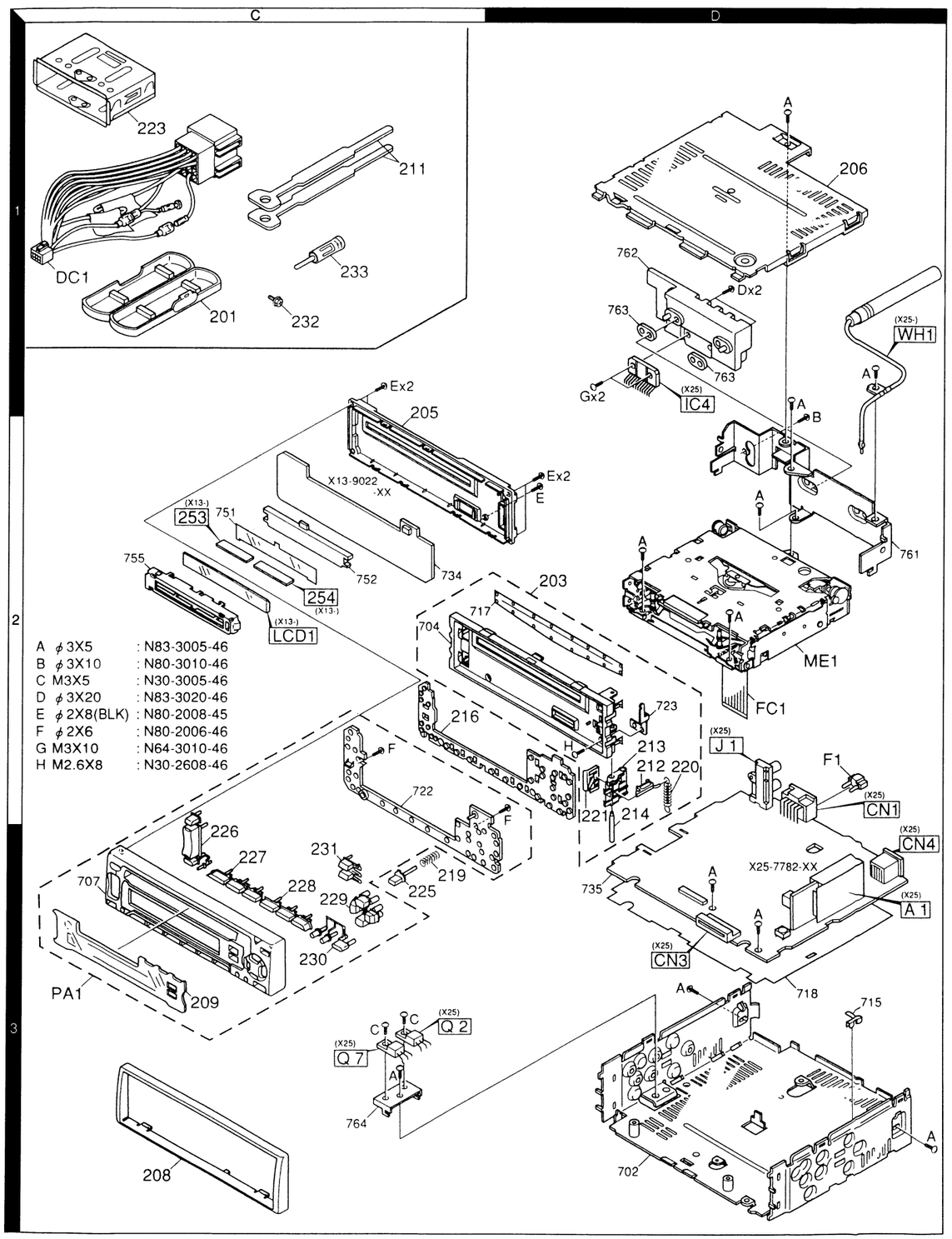


Parts with the exploded numbers larger than 700 are not supplied.

KDC-5050RG/RA,4050LG/LA

EXPLODED VIEW (UNIT)

A	φ3X5	: N83-3005-46
B	φ3X10	: N80-3010-46
C	M3X5	: N30-3005-46
D	φ3X20	: N83-3020-46
E	φ2X8(BLK)	: N80-2008-45
F	φ2X6	: N80-2006-46
G	M3X10	: N64-3010-46
H	M2.6X8	: N30-2608-46



Parts with the exploded numbers larger than 700 are not supplied.

PARTS LIST

× New Parts
Parts without Parts No. are not supplied.
Les articles non mentionnes dans le Parts No. ne sont pas fournis.
Teile ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向
KDC-5050RG/RA,4050LG/LA				
201 1C		A02-1444-03	PLASTIC CABINET ASSY	
203 2D	*	A22-1279-03	SUB PANEL ASSY	
205 2C	*	A46-1259-01	REAR COVER	
206 1D	*	A52-0706-02	TOP PLATE	
PA1 3C	*	A64-0967-12	PANEL ASSY (KDC-5050R)	EE1
PA1 3C	*	A64-0969-12	PANEL ASSY (KDC-4050L)	E3E4
208 3C		B07-2081-02	ESCUTCHEON	
209 3C	*	B10-1732-01	FRONT GLASS (KDC-5050R)	EE1
209 3C	*	B10-1734-01	FRONT GLASS (KDC-4050L)	E3E4
-		B46-0100-50	WARRANTY CARD	
-		B46-0182-14	ID CARD	EE3E4
-		B46-0606-04	ID CARD (KDC-5050RA)	E1
-	*	B64-0864-00	INST.MANUAL(E,F) (5050R)	EE1
-	*	B64-0865-00	INST.MANUAL(G,D,I)(5050R)	EE1
-	*	B64-0866-00	INST.MANUAL(S,P) (5050R)	EE1
-	*	B64-0867-00	INST.MANUAL(E,F,G,D,I)(4050L)	E3E4
-	*	B64-0868-00	INST.MANUAL(S,P) (4050L)	E3E4
211 1C		D10-3031-04	LEVER	
212 2D	*	D10-4051-03	LEVER	
213 2D	*	D10-4052-03	LEVER	
214 3D		D21-2250-04	SHAFT	
216 2C	*	E29-1517-02	CONDUCTIVE RUBBER	
DC1 1C	*	E30-4443-05	DC CORD	
FC1 2D	*	E39-0180-05	FLAT CABLE	
⚠ F1 2D		F52-0006-05	FUSE(MINI BLADE TYPE)(10A)	
219 3C		G01-2738-04	COMPRESSION SPRING	
220 2D		G01-2792-04	EXTENSION SPRING	
221 2D		G02-1244-03	FLAT SPRING	
-	*	H10-4546-02	POLYSTYRENE FOAMED FIXTURE	
-		H25-0329-04	PROTECTION BAG(280X450X0.03)	EE3
-		H25-0337-04	PROTECTION BAG(180X300X0.03)	
-		H25-1111-04	PROTECTION BAG(280X450X0.03)	E1E4
-	*	H54-0667-04	ITEM CARTON CASE(KDC-5050RG)	E
-	*	H54-0668-04	ITEM CARTON CASE(KDC-5050RA)	E1
-	*	H54-0679-04	ITEM CARTON CASE(KDC-4050LG)	E3
-	*	H54-0680-04	ITEM CARTON CASE(KDC-4050LA)	E4
223 1C		J21-7630-33	MOUNTING HARDWARE ASSY	
225 3C		K24-1763-04	KNOB(RELEASE)	
226 3C		K25-0786-03	KNOB(AUD,VOL,ATT,RESET)	
227 3C		K25-0788-03	KNOB(1,2,3)	
228 3C		K25-0789-03	KNOB(4,5,6)	
229 3C		K25-0790-03	KNOB(FM,AM,UP,DOWN)	
230 3C		K25-0791-03	KNOB(TI,CLK,LOUD)	
231 3C	*	K25-0793-03	KNOB(CD,TUNE)	
232 1C		N09-1885-05	SEMS (MACHINE SCREW)	
A 2D		N83-3005-46	PAN HEAD TAPTITE SCREW	
E 2D		N80-2008-45	PAN HEAD TAPTITE SCREW	
F 2C		N80-2006-46	PAN HEAD TAPTITE SCREW	
H 2D		N30-2608-45	PAN HEAD MACHINE SCREW	
233 1C		T90-0512-05	ANTENNA ADAPTOR	
ME1 2D	*	X92-3120-00	MECHANISM ASSY	
SWITCH UNIT (X13-9022-XX)				
D1 -18		B30-1371-05	LED (5050RA,4050LA)	E1E4
D1 -18		B30-1395-05	LED (5050RG,4050LG)	EE3
D19		B30-1424-05	LED	
LCD1 2C	*	B38-0662-05	LIQUID CRYSTAL	
PL1 ,2	*	B30-1484-05	LAMP	
C1		CK73FB1H821K	CHIP C 820PF K	
C2 ,3		CK73FB1E473KTA	CHIP C 0.047UF K	
C4		CK73FB1H103K	CHIP C 0.010UF K	
253 2C	*	E29-1518-04	CONDUCTIVE RUBBER	
254 2C	*	E29-1519-04	CONDUCTIVE RUBBER	
J1		E59-0824-05	RECTANGULAR PLUG	
L1		L40-4791-31	SMALL FIXED INDUCTOR(4.7UH)	
R1 -5		RK73FB2A102J	CHIP R 1.0K J 1/10W	
R6		RK73FB2A683J	CHIP R 68K J 1/10W	
R7		RK73FB2A473J	CHIP R 47K J 1/10W	
R8		RK73FB2A102J	CHIP R 1.0K J 1/10W	
R11 -14		RK73EB2B331J	CHIP R 330 J 1/8W	
R15 ,16		RK73EB2B511J	CHIP R 510 J 1/8W	
R17		RK73EB2B331J	CHIP R 330 J 1/8W	
R18 ,19		RK73EB2B130J	CHIP R 13 J 1/8W	
R20 -26		RK73FB2A102J	CHIP R 1.0K J 1/10W	
IC1		LC75883E	MOS-IC	
Q1		DTA114EK	DIGITAL TRANSISTOR	
Q1		UN2111	DIGITAL TRANSISTOR	
ELECTRIC UNIT (X25-7782-XX)				
D14		B30-1424-05	LED	
C1		C90-2905-05	ELECTRO 2200UF 16WV	
C2		CK73FB1H103K	CHIP C 0.010UF K	
C3		CE04CW1C101M	ELECTRO 100UF 16WV	
C4		C90-2594-05	ELECTRO 10UF 10WV	
C5		CE04CW1C101M	ELECTRO 100UF 16WV	
C6		CE04CW0J101M	ELECTRO 100UF 6.3WV	
C8		CE04CW1A101M	ELECTRO 100UF 10WV	
C9 ,10		CE04CW1A470M	ELECTRO 47UF 10WV	
C12		C90-2602-05	ELECTRO 0.10UF 50WV	
C13		CK73FB1E683KTA	CHIP C 0.068UF K	
C14		C90-2598-05	ELECTRO 3.3UF 25WV	
C15 ,16		CK73FB1H103K	CHIP C 0.010UF K	
C18 ,19		CK73FB1C104K	CHIP C 0.10UF K	
C20 ,21		CC73FCH1H220J	CHIP C 22PF J	
C23		CK73FB1H103K	CHIP C 0.010UF K	
C24		CE04CW0J101M	ELECTRO 100UF 6.3WV	
C25 ,26		CK73FB1H103K	CHIP C 0.010UF K	
C27		CK73FB1H331K	CHIP C 330PF K	
C31		CK73FB1H103K	CHIP C 0.010UF K	
C32		CK73FB1C104K	CHIP C 0.10UF K	

[Destination]
E : KDC-5050RG **E3** : KDC-4050LG
E1 : KDC-5050RA **E4** : KDC-4050LA

⚠ indicates safety critical components.

KDC-5050RG/RA,4050LG/LA

PARTS LIST

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Teile ohne Parts No. werden nicht geliefert.

ELECTRIC UNIT (X25-7782-XX)

Ref. No. 参照番号	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向
C38		CK73FB1H102K	CHIP C 1000PF K	
C39		CK73FB1E473KTA	CHIP C 0.047UF K	
C40		C90-2608-05	ELECTRO 1.0UF 50WV	
C41 ,42		C90-2610-05	ELECTRO 2.2UF 50WV	
C43 ,44		CK73FB1H122K	CHIP C 1200PF K	
C45 ,46		CK73FB1H152K	CHIP C 1500PF K	
C47 ,48		C90-2610-05	ELECTRO 2.2UF 50WV	
C49 -52		CK73FB1C104K	CHIP C 0.10UF K	
C53		CE04CW1A101M	ELECTRO 100UF 10WV	
C54		CK73FB1H103K	CHIP C 0.010UF K	E3E4
C54 ,55		CK73FB1H103K	CHIP C 0.010UF K	EE1
C55		CK73FB1C104K	CHIP C 0.10UF K	E3E4
C56 ,57		CK73FB1H102K	CHIP C 1000PF K	
C58		CK73FB1C154K	CHIP C 0.15UF K	
C59		CK73FB1H223KTA	CHIP C 0.022UF K	
C60		CK73FB1H272K	CHIP C 2700PF K	
C61		CC73FCH1H271J	CHIP C 270PF J	
C62		CK73FB1E473KTA	CHIP C 0.047UF K	
C63		C90-2525-05	NP-ELECT 2.2UF 35WV	EE1
C63		C90-2594-05	ELECTRO 10UF 10WV	E3E4
C64		C90-2608-05	ELECTRO 1.0UF 50WV	
C65		CK73FB1C823K	CHIP C 0.082UF K	
C67 ,68		C90-2606-05	ELECTRO 0.47UF 50WV	
C69 ,70		C90-2595-05	ELECTRO 4.7UF 16WV	EE1
C71		CE04CW0J101M	ELECTRO 100UF 6.3WV	EE1
C73		C90-2597-05	ELECTRO 10UF 16WV	EE1
C74		CK73FB1H103K	CHIP C 0.010UF K	EE1
C75		CC73FCH1H120J	CHIP C 12PF J	EE1
C76		CK73FB1H471K	CHIP C 470PF K	EE1
C77		CK73FB1H122K	CHIP C 1200PF K	EE1
C78		CK73FB1H471K	CHIP C 470PF K	EE1
C79		CK73FB1H122K	CHIP C 1200PF K	EE1
C80		CC73FCH1H820J	CHIP C 82PF J	EE1
C81		CC73FCH1H121J	CHIP C 120PF J	EE1
C82		CK73FB1H102K	CHIP C 1000PF K	EE1
C83		CC73FCH1H060D	CHIP C 6.0PF D	EE1
C84		CK73FB1H222K	CHIP C 2200PF K	EE1
C85		CK73FB1H223KTA	CHIP C 0.022UF K	EE1
C90		C90-2592-05	ELECTRO 10UF 6.3WV	
C91 -94		C90-2604-05	ELECTRO 0.22UF 50WV	
C95		CE04CW1A101M	ELECTRO 100UF 10WV	
C96		C90-2604-05	ELECTRO 0.22UF 50WV	
C98		C90-2598-05	ELECTRO 3.3UF 25WV	
C99 -106		CK73FB1H153KTA	CHIP C 0.015UF K	
C113,114		C90-2595-05	ELECTRO 4.7UF 16WV	
C115		CK73EB1H473K	CHIP C 0.047UF K	
C120		CK73EB1H104K	CHIP C 0.10UF K	
C130		CK73FB1H103K	CHIP C 0.010UF K	EE1
C131		CE04CW1A101M	ELECTRO 100UF 10WV	EE1
C132		C93-1062-05	CHIP C 0.033UF K	EE1
C133		CF92FV1H682J	MF-C 6800PF J	EE1
C134		C93-1032-05	CERAMIC 0.10UF K	E3E4
C134		C93-1065-05	CERAMIC 0.068UF 16WV	EE1
C135		C90-2525-05	NP-ELECT 2.2UF 35WV	E3E4
C135		C90-2807-05	NP-ELEC 0.47UF 50WV	EE1
C136		CE04CW1A101M	ELECTRO 100UF 10WV	
C137		CK73FB1H223KTA	CHIP C 0.022UF K	
C139		CK73FB1H102K	CHIP C 1000PF K	EE1
C139		CK73FB1H103K	CHIP C 0.010UF K	E3E4
C140		CK73FB1H822K	CHIP C 8200PF K	EE1
C141		CK73FB1H103K	CHIP C 0.010UF K	
C142		CE04CW1A470M	ELECTRO 47UF 10WV	
C143		CK73FB1H103K	CHIP C 0.010UF K	
C144		CK73FB1E393KTA	CHIP C 0.039UF K	
C145		CE04CW1A470M	ELECTRO 47UF 10WV	
C146		CK73FB1H103K	CHIP C 0.010UF K	
C147		CK73FB1H102K	CHIP C 1000PF K	
C160		CC73FCH1H331J	CHIP C 330PF J	
C161		C90-2610-05	ELECTRO 2.2UF 50WV	
C162		CE04CW0J470M	ELECTRO 47UF 6.3WV	
C163		CK73FB1H103K	CHIP C 0.010UF K	
C164		CK73FB1H561K	CHIP C 560PF K	
C165		CC73FCH1H820J	CHIP C 82PF J	
C166		CC73FCH1H470J	CHIP C 47PF J	
C167		CK73FB1H103K	CHIP C 0.010UF K	
C168		CC73FCH1H470J	CHIP C 47PF J	EE1
C169,170		CK73FB1H103K	CHIP C 0.010UF K	EE1
⚠ CN1		E58-0836-05	RECTANGULAR RECEPTACLE	
CN2	*	E40-9550-05	FLAT CABLE CONNECTOR	
CN3		E58-0854-05	RECTANGULAR RECEPTACLE	
CN4		E56-0809-05	CYLINDRICAL RECEPTACLE	EE1
J1	*	E63-0842-05	PHONO JACK	
WH1 1D	*	E30-4440-05	CORD WITH PLUG	
L1		L40-4791-17	SMALL FIXED INDUCTOR(4.7UH,K)	
L3		L40-4791-17	SMALL FIXED INDUCTOR(4.7UH,K)	
L4		L33-1039-05	LINE FILTER COIL	
L5		L40-4791-17	SMALL FIXED INDUCTOR(4.7UH,K)	E3E4
L5 -7		L40-4791-17	SMALL FIXED INDUCTOR(4.7UH,K)	EE1
L7		L40-4791-17	SMALL FIXED INDUCTOR(4.7UH,K)	E3E4
X1		L77-1163-05	CRYSTAL RESONATOR(4.5M)	
X1		L77-1165-05	CRYSTAL RESONATOR(4.5MHZ)	
X2		L78-0545-05	RESONATOR (CSB456FB38,AN)	
X3		L77-2002-05	CRYSTAL RESONATOR	
A 2D		N83-3005-46	PAN HEAD TAPTITE SCREW	
B 2D		N80-3010-46	PAN HEAD TAPTITE SCREW	
C 2D		N30-3005-46	PAN HEAD MACHINE SCREW	
D 1D		N83-3020-46	PAN HEAD TAPTITE SCREW	
G 1D		N64-3010-46	PAN HEAD SEMS SCREW	
R1		RK73FB2A223J	CHIP R 22K J 1/10W	
R2		RK73FB2A103J	CHIP R 10K J 1/10W	
R3		RK73FB2A222J	CHIP R 2.2K J 1/10W	
R4		RK73FB2A101J	CHIP R 100 J 1/10W	
R5		R92-2104-05	CHIP R 2.2 J 1W	
R6		RK73FB2A152J	CHIP R 1.5K J 1/10W	
R7		RK73FB2A561J	CHIP R 560 J 1/10W	
R14		RD14DB2H102J	SMALL-RD 1.0K J 1/2W	
R15		RK73FB2A223J	CHIP R 22K J 1/10W	
R16		RD14DB2H102J	SMALL-RD 1.0K J 1/2W	

[Destination]
E : KDC-5050RG **E3** : KDC-4050LG
E1 : KDC-5050RA **E4** : KDC-4050LA

⚠ indicates safety critical components.

PARTS LIST

× New Parts
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ELECTRIC UNIT (X25-7782-XX)

Ref. No. 参照番号	New Parts 新	Parts No. 部品番号	Description 部品名／規格			Destination 仕向
R20		RK73FB2A472J	CHIP R	4.7K	J 1/10W	
R21		RK73FB2A123J	CHIP R	12K	J 1/10W	
R22		RK73FB2A104J	CHIP R	100K	J 1/10W	
R23		RK73FB2A153J	CHIP R	15K	J 1/10W	
R24		RK73FB2A562J	CHIP R	5.6K	J 1/10W	
R25		RD14DB2H332J	SMALL-RD	3.3K	J 1/2W	
R27		RK73FB2A472J	CHIP R	4.7K	J 1/10W	
R28		RK73FB2A104J	CHIP R	100K	J 1/10W	
R30 ,31		RK73FB2A473J	CHIP R	47K	J 1/10W	
R33		RK73FB2A473J	CHIP R	47K	J 1/10W	E3E4
R36		RK73FB2A473J	CHIP R	47K	J 1/10W	E3E4
R36 ,37		RK73FB2A473J	CHIP R	47K	J 1/10W	EE1
R39 ,42		RK73FB2A104J	CHIP R	100K	J 1/10W	E3E4
R40		RK73FB2A473J	CHIP R	47K	J 1/10W	
R43 ,44		RK73FB2A102J	CHIP R	1.0K	J 1/10W	
R46		RK73FB2A222J	CHIP R	2.2K	J 1/10W	
R47		RK73FB2A221J	CHIP R	220	J 1/10W	
R48		RK73FB2A222J	CHIP R	2.2K	J 1/10W	EE1
R49		RK73FB2A473J	CHIP R	47K	J 1/10W	E3E4
R50 -52		RK73FB2A222J	CHIP R	2.2K	J 1/10W	
R53 -55		RK73FB2A102J	CHIP R	1.0K	J 1/10W	
R56 -58		RK73FB2A222J	CHIP R	2.2K	J 1/10W	
R59		RK73FB2A104J	CHIP R	100K	J 1/10W	
R60		RK73FB2A154J	CHIP R	150K	J 1/10W	
R62		RK73FB2A223J	CHIP R	22K	J 1/10W	
R63		RK73FB2A101J	CHIP R	100	J 1/10W	
R64		RK73FB2A222J	CHIP R	2.2K	J 1/10W	
R65		RK73FB2A473J	CHIP R	47K	J 1/10W	
R66		RK73FB2A102J	CHIP R	1.0K	J 1/10W	
R67		RK73FB2A472J	CHIP R	4.7K	J 1/10W	EE1
R68		RK73FB2A470J	CHIP R	47	J 1/10W	
R69		RK73FB2A222J	CHIP R	2.2K	J 1/10W	
R70		RK73FB2A332J	CHIP R	3.3K	J 1/10W	EE1
R71 ,72		RK73FB2A473J	CHIP R	47K	J 1/10W	
R74		RK73FB2A103J	CHIP R	10K	J 1/10W	
R75 ,76		RK73FB2A102J	CHIP R	1.0K	J 1/10W	
R77 ,78		RK73FB2A682J	CHIP R	6.8K	J 1/10W	
R82 ,83		RK73FB2A101J	CHIP R	100	J 1/10W	
R84 -86		RK73FB2A102J	CHIP R	1.0K	J 1/10W	
R87		RK73FB2A101J	CHIP R	100	J 1/10W	
R88		RK73FB2A470J	CHIP R	47	J 1/10W	
R89		RK73FB2A101J	CHIP R	100	J 1/10W	
R90		RK73FB2A332J	CHIP R	3.3K	J 1/10W	
R91 ,92		RK73FB2A102J	CHIP R	1.0K	J 1/10W	
R93 ,94		RK73FB2A622J	CHIP R	6.2K	J 1/10W	
R95		RK73FB2A302J	CHIP R	3.0K	J 1/10W	
R96		RK73FB2A271J	CHIP R	270	J 1/10W	
R98		RK73FB2A184J	CHIP R	180K	J 1/10W	
R99 ,100		RK73FB2A104J	CHIP R	100K	J 1/10W	
R101		RK73FB2A683J	CHIP R	68K	J 1/10W	
R102		RK73FB2A183J	CHIP R	18K	J 1/10W	
R103		RK73FB2A102J	CHIP R	1.0K	J 1/10W	
R104		RK73EB2B562J	CHIP R	5.6K	J 1/8W	EE1
R105		RK73FB2A103J	CHIP R	10K	J 1/10W	EE1
R106		RK73FB2A753J	CHIP R	75K	J 1/10W	EE1

Ref. No. 参照番号	New Parts 新	Parts No. 部品番号	Description 部品名／規格			Destination 仕向
R107		RK73FB2A182J	CHIP R	1.8K	J 1/10W	EE1
R108		RK73FB2A153J	CHIP R	15K	J 1/10W	EE1
R109		RK73FB2A103J	CHIP R	10K	J 1/10W	EE1
R110		RK73FB2A562J	CHIP R	5.6K	J 1/10W	EE1
R111		RK73FB2A161J	CHIP R	160	J 1/10W	EE1
R112		RK73FB2A103J	CHIP R	10K	J 1/10W	EE1
R113		RK73FB2A823J	CHIP R	82K	J 1/10W	EE1
R114		RK73FB2A103J	CHIP R	10K	J 1/10W	EE1
R115		RK73FB2A104J	CHIP R	100K	J 1/10W	EE1
R116		RK73FB2A103J	CHIP R	10K	J 1/10W	EE1
R121-124		RK73FB2A472J	CHIP R	4.7K	J 1/10W	
R125		RK73FB2A432J	CHIP R	4.3K	J 1/10W	
R126		RK73FB2A431J	CHIP R	430	J 1/10W	
R129		RK73FB2A223J	CHIP R	22K	J 1/10W	
R133,134		RK73FB2A361J	CHIP R	360	J 1/10W	
R139,140		RK73FB2A223J	CHIP R	22K	J 1/10W	
R143,144		RK73EB2B221J	CHIP R	220	J 1/8W	
R147,148		RK73EB2B100J	CHIP R	10	J 1/8W	EE1
R149		RK73EB2B4R7J	CHIP R	4.7	J 1/8W	EE1
R150-152		RK73FB2A104J	CHIP R	100K	J 1/10W	
R153-155		RK73FB2A222J	CHIP R	2.2K	J 1/10W	
R156		RK73EB2B102J	CHIP R	1.0K	J 1/8W	
R163		RK73EB2B222J	CHIP R	2.2K	J 1/8W	
R164		RK73EB2B472J	CHIP R	4.7K	J 1/8W	EE1
R165-167		RK73EB2B102J	CHIP R	1.0K	J 1/8W	EE1
R168		RK73EB2B470J	CHIP R	47	J 1/8W	EE1
R169		RK73EB2B102J	CHIP R	1.0K	J 1/8W	EE1
R170		RK73EB2B470J	CHIP R	47	J 1/8W	EE1
R171		RK73EB2B102J	CHIP R	1.0K	J 1/8W	EE1
R172-175		RK73FB2A104J	CHIP R	100K	J 1/10W	
R176		RK73FB2A331J	CHIP R	330	J 1/10W	
R177		RK73FB2A622J	CHIP R	6.2K	J 1/10W	
R180		RK73FB2A750J	CHIP R	75	J 1/10W	EE1
R181		RK73FB2A223J	CHIP R	22K	J 1/10W	EE1
R182		RK73FB2A562J	CHIP R	5.6K	J 1/10W	EE1
R183		RK73FB2A101J	CHIP R	100	J 1/10W	EE1
R184		RK73FB2A332J	CHIP R	3.3K	J 1/10W	EE1
R185		RK73FB2A302J	CHIP R	3.0K	J 1/10W	EE1
R186,187		RK73FB2A222J	CHIP R	2.2K	J 1/10W	EE1
R187		RK73FB2A102J	CHIP R	1.0K	J 1/10W	E3E4
R188		RK73FB2A472J	CHIP R	4.7K	J 1/10W	EE1
R188		RK73FB2A561J	CHIP R	560	J 1/10W	E3E4
R189		RK73FB2A221J	CHIP R	220	J 1/10W	E3E4
R189		RK73FB2A331J	CHIP R	330	J 1/10W	EE1
R190		RK73FB2A751J	CHIP R	750	J 1/10W	
R191		RK73FB2A331J	CHIP R	330	J 1/10W	E3E4
R192		RK73FB2A331J	CHIP R	330	J 1/10W	EE1
R200		RK73FB2A222J	CHIP R	2.2K	J 1/10W	EE1
R201		RK73FB2A223J	CHIP R	22K	J 1/10W	
R202		RK73EB2B102J	CHIP R	1.0K	J 1/8W	
R203		RK73FB2A223J	CHIP R	22K	J 1/10W	
R204		RK73EB2B102J	CHIP R	1.0K	J 1/8W	
R205,206		RK73FB2A472J	CHIP R	4.7K	J 1/10W	
R207		RK73FB2A222J	CHIP R	2.2K	J 1/10W	

[Destination]
E : KDC-5050RG **E3** : KDC-4050LG
E1 : KDC-5050RA **E4** : KDC-4050LA

⚠ indicates safety critical components.

KDC-5050RG/RA,4050LG/LA

PARTS LIST

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Teile ohne Parts No. werden nicht geliefert.

ELECTRIC UNIT (X25-7782-XX)

Ref. No. 参照番号	New Parts 新	Parts No. 部品番号	Description 部品名／規格			Destination 仕向
R208		RK73FB2A393J	CHIP R	39K	J 1/10W	E3E4
R209		RK73FB2A151J	CHIP R	150	J 1/10W	
R210		RK73FB2A473J	CHIP R	47K	J 1/10W	E3E4
R211,212		RK73FB2A103J	CHIP R	10K	J 1/10W	
R213		RK73FB2A182J	CHIP R	1.8K	J 1/10W	
R214		RK73FB2A562J	CHIP R	5.6K	J 1/10W	
R215		RK73FB2A223J	CHIP R	22K	J 1/10W	
R216,217		RK73FB2A222J	CHIP R	2.2K	J 1/10W	
R218		RK73FB2A473J	CHIP R	47K	J 1/10W	EE1
R227-230		RK73FB2A222J	CHIP R	2.2K	J 1/10W	
R231,232		RK73FB2A223J	CHIP R	22K	J 1/10W	EE1
R233		RK73FB2A822J	CHIP R	8.2K	J 1/10W	EE1
R234		RK73FB2A102J	CHIP R	1.0K	J 1/10W	EE1
R235		RK73FB2A472J	CHIP R	4.7K	J 1/10W	EE1
R236		RK73FB2A332J	CHIP R	3.3K	J 1/10W	EE1
R237		RK73FB2A472J	CHIP R	4.7K	J 1/10W	EE1
R238		RK73FB2A182J	CHIP R	1.8K	J 1/10W	EE1
R239,240		RK73FB2A473J	CHIP R	47K	J 1/10W	EE1
R241		RK73FB2A103J	CHIP R	10K	J 1/10W	EE1
R242		RK73FB2A682J	CHIP R	6.8K	J 1/10W	EE1
R243		RK73FB2A561J	CHIP R	560	J 1/10W	EE1
R244		RK73FB2A222J	CHIP R	2.2K	J 1/10W	EE1
R245		RK73FB2A223J	CHIP R	22K	J 1/10W	EE1
R246		RK73FB2A562J	CHIP R	5.6K	J 1/10W	EE1
R247		RK73FB2A223J	CHIP R	22K	J 1/10W	EE1
R248		RK73FB2A102J	CHIP R	1.0K	J 1/10W	
R249		RK73FB2A472J	CHIP R	4.7K	J 1/10W	
R250,251		RK73FB2A104J	CHIP R	100K	J 1/10W	E3E4
VR1		R12-0679-05	TRIMMING POT.(22K)			
D1		RM10ZLF	DIODE			
D2		S5566B	DIODE			
D3		UZL-6(M1)	ZENER DIODE			
D4		UZL-9(M2)	ZENER DIODE			
D5		UZL-9(L1)	ZENER DIODE			
D6		UZ-11BS(B)	ZENER DIODE			
D7		1SS133	DIODE			
D8		AM01Z	DIODE			
D8		ERA15-01	DIODE			
D10		UZL-6(M1)	ZENER DIODE			
D12		UZL-6(M1)	ZENER DIODE			
D15		DAN202K	DIODE			
D15		MA152WK	DIODE			
D16		UZMA6.8F	ZENER DIODE			
D17 -19		DA204K	DIODE			EE1
D20		DAN202K	DIODE			EE1
D20		MA152WK	DIODE			EE1
D21		DA204K	DIODE			
D30 ,31		UZMA6.2F	ZENER DIODE			EE1
D33		UZMA6.2F	ZENER DIODE			EE1
D35		DAN202K	DIODE			
D35		MA152WK	DIODE			
D36		DAP202K	DIODE			
D36		MA152WA	DIODE			
D37 ,38		DA204K	DIODE			

Ref. No. 参照番号	New Parts 新	Parts No. 部品番号	Description 部品名／規格		Destination 仕向
D40		DA204K	DIODE		EE1
D42		1SS133	DIODE		
D50		1SS133	DIODE		EE1
IC1	*	178016BGC511	MI-COM IC	(KDC-5050R)	EE1
IC1	*	178016BGC517	MI-COM IC	(KDC-4050L)	E3E4
IC2		TDA7420	ANALOGUE IC		
IC4		TDA7385	ANALOGUE IC		
IC7		HD74HC27FP	MOS-IC		
IC8		TC4W66F	IC	(KDC-5050R)	EE1
IC9		SAA6579T	IC		
Q1		2SC2412K	TRANSISTOR		
Q1		2SD601A	TRANSISTOR		
Q2		2SB1565F(E,F)	TRANSISTOR		
Q3		DTC144EK	DIGITAL TRANSISTOR		
Q3		UN2213	DIGITAL TRANSISTOR		
Q4		DTA124EK	DIGITAL TRANSISTOR		
Q4		UN2112	DIGITAL TRANSISTOR		
Q5		2SC2412K	TRANSISTOR		
Q5		2SD601A	TRANSISTOR		
Q6		2SB1184	TRANSISTOR		
Q7		2SD2396F40	TRANSISTOR		
Q8		DTC144EK	DIGITAL TRANSISTOR		
Q8		UN2213	DIGITAL TRANSISTOR		
Q9		DTA124EK	DIGITAL TRANSISTOR		
Q9		UN2112	DIGITAL TRANSISTOR		
Q10		2SC2412K	TRANSISTOR		
Q10		2SD601A	TRANSISTOR		
Q11		2SB1184	TRANSISTOR		
Q16		DTC114YK	DIGITAL TRANSISTOR		
Q16		UN2214	DIGITAL TRANSISTOR		
Q17		DTA124EK	DIGITAL TRANSISTOR		
Q17		UN2112	DIGITAL TRANSISTOR		
Q18		2SA1037K	TRANSISTOR		
Q19		2SB1277(Q,R)	TRANSISTOR		
Q22		2SC2412K	TRANSISTOR		
Q22		2SD601A	TRANSISTOR		
Q24		DTA114YK	DIGITAL TRANSISTOR		
Q25		DTC124EK	DIGITAL TRANSISTOR		
Q25		UN2212	DIGITAL TRANSISTOR		
Q26		DTA124EK	DIGITAL TRANSISTOR		
Q26		UN2112	DIGITAL TRANSISTOR		
Q27 ,28		DTC144EK	DIGITAL TRANSISTOR		EE1
Q27 ,28		UN2213	DIGITAL TRANSISTOR		EE1
Q28		DTC144EK	DIGITAL TRANSISTOR		E3E4
Q28		UN2213	DIGITAL TRANSISTOR		E3E4
Q29 ,30		2SC2412K	TRANSISTOR		
Q29 ,30		2SD601A	TRANSISTOR		
Q32		2SC2412K	TRANSISTOR		EE1
Q32		2SD601A	TRANSISTOR		EE1
Q33		DTC124EK	DIGITAL TRANSISTOR		
Q33		UN2212	DIGITAL TRANSISTOR		
Q34		DTA124EK	DIGITAL TRANSISTOR		
Q34		UN2112	DIGITAL TRANSISTOR		
Q37 ,38		DTC143TK	DIGITAL TRANSISTOR		
Q37 ,38		UN2216	DIGITAL TRANSISTOR		

[Destination]
E : KDC-5050RG **E3** : KDC-4050LG
E1 : KDC-5050RA **E4** : KDC-4050LA

⚠ indicates safety critical components.

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ELECTRIC UNIT (X25-7782-XX)

Ref. No. 参照番号	New Parts 新	Parts No. 部品番号	Description 部品名／規格			Destination 仕向
Q40		DTA114YK	DIGITAL TRANSISTOR			
Q50		DTC144EK	DIGITAL TRANSISTOR			E81
Q50		UN2213	DIGITAL TRANSISTOR			E81
Q51		2SA1037K	TRANSISTOR			E81
Q52 ,53		2SK669	FET			E81
Q53		2SK669	FET			E3E4
Q54		DTC114TK	DIGITAL TRANSISTOR			E81
Q54		UN2215	DIGITAL TRANSISTOR			E81
Q55		DTA124EK	DIGITAL TRANSISTOR			E81
Q55		UN2112	DIGITAL TRANSISTOR			E81
Q56 ,57		2SB1277(Q,R)	TRANSISTOR			
Q58 ,59		2SC2412K	TRANSISTOR			
Q58 ,59		2SD601A	TRANSISTOR			
Q62 -64		DTC124EK	DIGITAL TRANSISTOR			
Q62 -64		UN2212	DIGITAL TRANSISTOR			
Q65		DTC144EK	DIGITAL TRANSISTOR			E3E4
Q65		UN2213	DIGITAL TRANSISTOR			E3E4
Q70		2SA1037K	TRANSISTOR			E81
Q71 ,72		DTC124EK	DIGITAL TRANSISTOR			E81
Q71 ,72		UN2212	DIGITAL TRANSISTOR			E81
Q73 -77		2SC2412K	TRANSISTOR			E81
Q73 -77		2SD601A	TRANSISTOR			E81
Q77		2SC2412K	TRANSISTOR			E3E4
Q77		2SD601A	TRANSISTOR			E3E4
TH1		NT732ATD33KJ	THERMISTOR			
A1 3D		W02-1512-05	FM/AM FRONT-END (KDC-4050L)			E3E4
A1 3D		W02-1514-05	FM/AM FRONT-END (KDC-5050R)			E81
CD PLAYER UNIT (X32-4280-00)						
C1 ,2		CK73EB1C105K	CHIP C	1.0UF	K	
C3 ,4		C92-0509-05	CHIP-TAN	10UF	6.3WV	
C5		CC73FCH1H220J	CHIP C	22PF	J	
C6		CC73FCH1H020C	CHIP C	2.0PF	C	
C7		CK73FB1C104K	CHIP C	0.10UF	K	
C8		CK73EB1C105K	CHIP C	1.0UF	K	
C9		CC73FCH1H101J	CHIP C	100PF	J	
C10 ,11		CK73FB1H682K	CHIP C	6800PF	K	
C12		CK73FB1H222K	CHIP C	2200PF	K	
C13		CK73FB1E273KTA	CHIP C	0.027UF	K	
C14		CK73FB1H472K	CHIP C	4700PF	K	
C15		CK73FB1E473KTA	CHIP C	0.047UF	K	
C16		CC73FCH1H101J	CHIP C	100PF	J	
C17		CK73FB1H222K	CHIP C	2200PF	K	
C18		CC73FCH1H391J	CHIP C	390PF	J	
C19 ,20		CK73FB1C104K	CHIP C	0.10UF	K	
C21		C92-0509-05	CHIP-TAN	10UF	6.3WV	
C22		CK73FB1C104K	CHIP C	0.10UF	K	
C23		CK73FB1H102K	CHIP C	1000PF	K	
C24		CK73FB1H223KTA	CHIP C	0.022UF	K	
C25		CK73FB1H123K	CHIP C	0.012UF	K	
C26		CK73FB1C104K	CHIP C	0.10UF	K	
C27		CC73FCH1H101J	CHIP C	100PF	J	
C28		CK73EB1C105K	CHIP C	1.0UF	K	
C31		CK73EB1C105K	CHIP C	1.0UF	K	
C41		C92-1335-05	ELECTRO	4.7UF	16WV	
C42		CK73EB1H104K	CHIP C	0.10UF	K	
C43		CK73FB1H123K	CHIP C	0.012UF	K	
C44		CK73FB1C104K	CHIP C	0.10UF	K	
C45		CK73FB1H223KTA	CHIP C	0.022UF	K	
C51		CK73EB1C105K	CHIP C	1.0UF	K	
C53		C92-0509-05	CHIP-TAN	10UF	6.3WV	
C54		CK73FB1C104K	CHIP C	0.10UF	K	
C55 ,56		CK73EB1C105K	CHIP C	1.0UF	K	
C57 ,58		CK73FB1C224K	CHIP C	0.22UF	K	
C61 ,62		CC73FCH1H471J	CHIP C	470PF	J	
C63 ,64		CC73FCH1H680J	CHIP C	68PF	J	
C65 ,66		CK73FB1H222K	CHIP C	2200PF	K	
C101		CC73ECH1H221J	CHIP C	220PF	K	
C102		CK73FB1C104K	CHIP C	0.10UF	K	
CN1		E40-9536-05	FLAT CABLE CONNECTOR			
CN2		E40-9339-05	FLAT CABLE CONNECTOR			
L1		L40-1001-31	SMALL FIXED INDUCTOR(10UH)			
X1		L78-0620-05	RESONATOR			
X2		L78-0528-05	RESONATOR			
R1		RK73FB2A243J	CHIP R	24K	J 1/10W	
R2		RK73FB2A183J	CHIP R	18K	J 1/10W	
R3		RK73FB2A154J	CHIP R	150K	J 1/10W	
R4		RK73FB2A155J	CHIP R	1.5M	J 1/10W	
R5		RK73FB2A910J	CHIP R	91	J 1/10W	
R6		RK73FB2A154J	CHIP R	150K	J 1/10W	
R7		RK73FB2A155J	CHIP R	1.5M	J 1/10W	
R8		RK73EB2B4R7J	CHIP R	4.7	J 1/8W	
R9		RK73EB2B100J	CHIP R	10	J 1/8W	
R10 ,11		RK73FB2A912J	CHIP R	9.1K	J 1/10W	
R12		RK73FB2A562J	CHIP R	5.6K	J 1/10W	
R13		RK73FB2A683J	CHIP R	68K	J 1/10W	
R14 ,15		RK73FB2A824J	CHIP R	820K	J 1/10W	
R16		RK73FB2A223J	CHIP R	22K	J 1/10W	
R17		RK73FB2A393J	CHIP R	39K	J 1/10W	
R18		RK73FB2A392J	CHIP R	3.9K	J 1/10W	
R19		RK73FB2A333J	CHIP R	33K	J 1/10W	
R20		RK73FB2A104J	CHIP R	100K	J 1/10W	
R21		RK73FB2A224J	CHIP R	220K	J 1/10W	
R31		RK73FB2A102J	CHIP R	1.0K	J 1/10W	
R32		RK73FB2A104J	CHIP R	100K	J 1/10W	
R33		RK73FB2A155J	CHIP R	1.5M	J 1/10W	
R34		RK73FB2A333J	CHIP R	33K	J 1/10W	
R35		RK73FB2A104J	CHIP R	100K	J 1/10W	
R36		RK73FB2A111J	CHIP R	110	J 1/10W	
R37		RK73FB2A471J	CHIP R	470	J 1/10W	
R38		RK73FB2A224J	CHIP R	220K	J 1/10W	
R39		RK73FB2A102J	CHIP R	1.0K	J 1/10W	
R41		RK73FB2A101J	CHIP R	100	J 1/10W	
R42		RK73FB2A104J	CHIP R	100K	J 1/10W	
R43		RK73FB2A101J	CHIP R	100	J 1/10W	
R44		RK73FB2A102J	CHIP R	1.0K	J 1/10W	
R45		RK73FB2A103J	CHIP R	10K	J 1/10W	
R46		RK73FB2A102J	CHIP R	1.0K	J 1/10W	
R47		RK73FB2A103J	CHIP R	10K	J 1/10W	

[Destination]
E : KDC-5050RG **E3** : KDC-4050LG
E1 : KDC-5050RA **E4** : KDC-4050LA

⚠ indicates safety critical components.

KDC-5050RG/RA,4050LG/LA

PARTS LIST

* New Parts
Parts without Parts No. are not supplied.
Les articles non mentionnes dans le Parts No. ne sont pas fournis.
Teile ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	New Parts 新	Parts No. 部品番号	Description 部品名／規格			Destination 仕向
R48 -50		RK73FB2A472J	CHIP R	4.7K	J 1/10W	
R51		RK73FB2A101J	CHIP R	100	J 1/10W	
R52		RK73FB2A104J	CHIP R	100K	J 1/10W	
R53		RK73FB2A101J	CHIP R	100	J 1/10W	
R54		RK73FB2A104J	CHIP R	100K	J 1/10W	
R55		RK73FB2A101J	CHIP R	100	J 1/10W	
R56		RK73FB2A104J	CHIP R	100K	J 1/10W	
R57		RK73FB2A472J	CHIP R	4.7K	J 1/10W	
R58 -64		RK73FB2A101J	CHIP R	100	J 1/10W	
R65 ,66		RK73FB2A472J	CHIP R	4.7K	J 1/10W	
R67		RK73FB2A101J	CHIP R	100	J 1/10W	
R68		RK73FB2A104J	CHIP R	100K	J 1/10W	
R69		RK73FB2A101J	CHIP R	100	J 1/10W	
R71		RK73FB2A752J	CHIP R	7.5K	J 1/10W	
R72		RK73FB2A102J	CHIP R	1.0K	J 1/10W	
R73		RK73FB2A333J	CHIP R	33K	J 1/10W	
R74		RK73FB2A822J	CHIP R	8.2K	J 1/10W	
R75		RK73FB2A273J	CHIP R	27K	J 1/10W	
R76		RK73FB2A512J	CHIP R	5.1K	J 1/10W	
R77		RK73FB2A393J	CHIP R	39K	J 1/10W	
R78		RK73FB2A153J	CHIP R	15K	J 1/10W	
R79		RK73FB2A202J	CHIP R	2.0K	J 1/10W	
R80		RK73FB2A162J	CHIP R	1.6K	J 1/10W	
R81		RK73FB2A273J	CHIP R	27K	J 1/10W	
R82		RK73FB2A562J	CHIP R	5.6K	J 1/10W	
R83		RK73FB2A561J	CHIP R	560	J 1/10W	
R91 ,92		RK73FB2A332J	CHIP R	3.3K	J 1/10W	
R93 ,94		RK73FB2A562J	CHIP R	5.6K	J 1/10W	
R95 ,96		RK73FB2A203J	CHIP R	20K	J 1/10W	
R101-106		RK73FB2A203J	CHIP R	20K	J 1/10W	
R107,108		RK73FB2A681J	CHIP R	680	J 1/10W	
R201,202		RK73FB2A392J	CHIP R	3.9K	J 1/10W	
R203,204		RK73FB2A204J	CHIP R	200K	J 1/10W	
R205		RK73FB2A472J	CHIP R	4.7K	J 1/10W	
W1		R92-2052-05	CHIP R	0	J 1/10W	
W11 -13		R92-2053-05	CHIP R	0	J 1/8W	
S1 ,2		S68-0822-05	PUSH SWITCH			
S3		S68-0823-05	PUSH SWITCH			
D1 ,2		DAN202K	DIODE			
D11		DAN202K	DIODE			
IC1		AN8806SB	ANALOGUE IC			
IC2		MN662747RPH	MOS-IC			
IC3		M37471M8-368FP	MI-COM IC			
IC4		BA6790FP	ANALOGUE IC			
IC5		TA78L05F	IC(VOLTAGE REGULATOR/ +5V)			
IC6		NJM4565MD	IC(OP AMP X2)			
Q1		2SA1362(Y)	TRANSISTOR			
Q2		DTC124EK	DIGITAL TRANSISTOR			
Q3 ,4		2SA1362(Y)	TRANSISTOR			
Q5		DTC124EK	DIGITAL TRANSISTOR			
Q6		2SA1037K	TRANSISTOR			
Q12		DTC124EK	DIGITAL TRANSISTOR			

CD PLAYER UNIT (X32-4280-00)

Ref. No. 参照番号	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向
MECHANISM ASSY (X92-3120-00)				
1	2A *	A10-4224-21	CHASSIS	
2	1B *	A10-4225-13	CHASSIS CALKING ASSY	
3	2B *	A11-0915-23	SUB CHASSIS CALKING ASSY	
4	3B *	D02-0209-03	TURNTABLE PLATTER	
5	2A *	D10-3082-03	ARM	
6	2A *	D10-3083-14	ARM ASSY	
7	2A *	D10-3084-14	ARM ASSY	
8	3A *	D10-3087-24	ARM ASSY	
9	2B *	D10-3092-03	SLIDER	
10	3B *	D10-3093-04	SLIDER ASSY	
11	2B *	D10-3095-04	SLIDER ASSY	
12	2B *	D10-3096-04	SLIDER ASSY	
13	1A *	D10-3099-04	SLIDER ASSY	
14	1A *	D10-3100-04	SLIDER ASSY	
15	2A *	D10-4003-03	LEVER	
16	1B *	D10-4004-04	LEVER ASSY	
17	1B *	D10-4006-04	LEVER	
18	1A *	D10-4007-04	LEVER	
19	2B *	D10-4008-04	LEVER	
20	2A *	D10-4009-03	LEVER	
21	3A *	D10-4010-04	LEVER	
22	3A *	D10-4011-14	LEVER ASSY	
23	3A *	D10-4013-04	ARM ASSY	
24	3B *	D10-4050-04	ARM	
27	3B *	D13-1229-13	RACK (GEAR)	
28	3B *	D13-1230-14	WORM	
29	3B *	D13-1231-04	GEAR	
30	3A *	D13-1232-04	GEAR	
31	3B *	D13-1233-04	GEAR	
32	3B *	D13-1234-04	GEAR ASSY	
33	3A *	D13-1238-03	GEAR	
34	3B *	D13-1240-04	GEAR	
35	3B *	D13-1241-04	GEAR	
36	3B *	D13-1242-04	GEAR	
37	1B *	D13-1243-04	GEAR	
38	1B *	D13-1244-04	GEAR	
39	1B *	D13-1245-14	GEAR	
40	2A *	D13-1246-04	GEAR	
41	2B *	D13-1247-04	GEAR	
42	2B *	D13-1248-04	GEAR	
43	2B *	D13-1249-04	GEAR ASSY	
45	1B *	D14-0668-04	ROLLER	
46	1A *	D14-0670-04	ROLLER	
47	3B *	D14-0674-04	ROLLER	
48	2B *	D19-0613-14	LEAD SCREW	
49	3A *	D21-2228-04	SHAFT	
50	1A *	D21-2229-04	SHAFT	
51	1A *	D23-0925-04	RETAINER	
52	2A *	D32-0614-04	STOPPER	
53	1B *	D39-0223-05	DAMPER	
54	2B *	D39-0224-05	DAMPER	
55	3B *	F09-1246-04	SHEET(MOTOR)	
5A	2A *	D10-4038-13	ARM ASSY	

[Destination]
E : KDC-5050RG **E3** : KDC-4050LG
E1 : KDC-5050RA **E4** : KDC-4050LA

⚠ indicates safety critical components.

PARTS LIST

× New Parts
Parts without Parts No. are not supplied.
Les articles non mentionnes dans le Parts No. ne sont pas fournis.
Teile ohne Parts No. werden nicht geliefert.

MECHANISM ASSY (X92-3120-00)

Ref. No. 参照番号	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向
60 2A	*	G01-2770-04	EXTENSION SPRING	
61 3A	*	G01-2771-04	EXTENSION SPRING	
62 3A	*	G01-2772-14	EXTENSION SPRING	
63 3A	*	G01-2773-14	EXTENSION SPRING	
64 3A	*	G01-2774-24	EXTENSION SPRING	
65 1B	*	G01-2775-04	TORSION COIL SPRING	
66 1B	*	G01-2776-14	TORSION COIL SPRING	
67 3B	*	G01-2777-14	TORSION COIL SPRING	
68 3A	*	G01-2824-14	COMPRESSION SPRING	
70 2A	*	G02-1231-04	FLAT SPRING	
71 2B	*	G02-1232-14	FLAT SPRING	
72 2A	*	G02-1241-24	FLAT SPRING	
73 2A	*	G02-1248-04	FLAT SPRING	
75 2A	*	J11-0613-03	CLAMPER	
76 3A	*	J19-4678-13	HOLDER	
77 2B	*	J19-4679-24	HOLDER	
78 3B	*	J21-7684-03	MOUNTING HARDWARE	
79 2A	*	J21-7686-03	MOUNTING HARDWARE	
80 1B	*	J21-7690-03	MOUNTING HARDWARE	
81 3A	*	J31-1032-04	COLLAR	
82 3A	*	J84-0060-05	FLEXIBLE PRINTED WIRING BOARD	
83 1A	*	J90-0757-12	GUIDE	
A 2A		N09-4158-05	MACHINE SCREW (M1.7X2.5)	
B 1B		N09-4172-05	TAPPING SCREW (2X3.5,C-TITE)	
C 2B		N09-4187-05	MACHINE SCREW (M1.7X4)	
D 2A		N38-2020-46	PAN HEAD MACHIN SCREW	
E 3A		N82-2006-46	BINDING HEAD TAPTITE SCREW	
F 3B		N19-2023-04	FLAT WASHER	
G 2A		N19-2058-04	FLAT WASHER	
M1 3B		T42-0728-05	DC MOTOR	
M2 3B	*	T42-0749-05	DC MOTOR	
PU1 2B	*	T25-0209-05	OPTICAL PICKUP HEAD	

[Destination]
E : KDC-5050RG
E1 : KDC-5050RA
E3 : KDC-4050LG
E4 : KDC-4050LA

⚠ indicates safety critical components.

KDC-5050RG/RA,4050LG/LA

SPECIFICATIONS

FM

Frequency Range	87.5 ~ 108.0MHz
Frequency Step	50kHz
Usable Sensitivity (S/N : 26dB)	0.7μV/75Ω
Quieting Sensitivity (S/N : 46dB)	1.6μV/75Ω
Frequency Response (±3.0dB)	30Hz ~ 15kHz
S/N	68dB (MONO)
Selectivity (DIN)	≧80dB (±400kHz)
STEREO Separation	35dB (1kHz)

MW

Frequency Range	531 ~ 1611kHz
Frequency Step	9kHz
Usable Sensitivity	30μV

LW

Frequency Range	153 ~ 281kHz
Usable Sensitivity	45μV

CD

Laser Diode	GaAlAs (λ=780nm)
Digital Filter (D/A)	8 Times Over Sampling
D/A Converter	1Bit
Spindle Speed	500 ~ 200 (CLV)
Wow & Flutter	Below Mesurable Limit
Frequency Response	10 ~ 20kHz (±1dB)
Total Harmonic Distortion	0.01% (1kHz)
S/N Ratio	93dB (1kHz)
Dynamic Range	93dB
Channel Separation	85dB

AUDIO

Preout Level / Load	1800mV/10kΩ
Preout Impedance	≦600Ω
Max Power	30W × 4
PWR (DIN45324, +B=14.4V)	20W × 4
Tone Action	
Bass	100Hz ±10dB
Treble	10kHz ±10dB

GENERAL

Operating Voltage (11 ~ 16V allowable)	14.4V
Current Comsumption	10.0A at rated power
Installation Size (W × H × D)	182 × 53 × 160mm
Weight	1400g

KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

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